LMA District Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)						
* Overall LMA Rating (Fall Only)										
	** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating									
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.										
FALL INSPECTIONS: The overall maintena within the attached u			ion and maintenance de inded to be an indiction o							
Comments										

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	6.20

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/21/2015 - 04/21/2015			
DWR Inspector	Richard Willoughby			
Accompanied By	Mario Jaques RD 524			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.		121	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item		is & Maintena		0		0	
пеш	Manuals				0		0
DWR ID	DWR_RD0	0524_01_s _ 201	2_121				
	Action/Comments						
Inspector Comments: The LMA does not have a copy of the O&M Manual on file.							

No Photos

Rating ** Issue No. 123 LM Start 0.00 M Location * LM End 0.00 Issue Type + Ma N/A Earthen Levee GPS Latitude/Longitude Category Start End Flood Preparedness & Training Item DWR ID DWR_RD0524_01_s _ 2012_123 Action/Comments Inspector Comments: No recent training.

No Photos

Rating ** Issue No. LM Start 0.00 M 138 Location * 0.00 Issue Type + Ма N/A LM End Earthen Levee GPS Latitude/Longitude Category Emergency Supplies & Item Equipment DWR ID DWR_RD0524_01_s _ 2013_138

No Photos

Action/Comments

Inspector Comments: The LMA does not appear to have emergency supplies or equipment.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side

CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.19	Rating **	U	Issue No.		129	
LM End	0.19	Issue Type +	Ма	Location *	WS		
Catagory	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR Erosion Survey		37.93908	5 °	37.939085 °		
nem		-121.34391	7 °	-121.343917 °			
DWR ID	DWR_RD0	524_01_s _ 201	5_129				

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope. [2014 Site ID:RD0524U01RM40.85]

Photo 1 of 1: SP_2015_RD0524_107_129_20150309_00129.jpg



Close view of the erosion.

LM Start	0.21	Rating **	М	Issue No.		3	
LM End	0.21	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Calegory				Start		End	
Item	Crown Surface / Depressions / Rutting			37.938890 °		37.938890	0
пеш				-121.343657 °		-121.343657	0
DWR ID DWR_RD0524_01_s _ 2012_3							

Action/Comments

Repair depressions or ruts in the crown or slope. Inspector Comments: No change in status.

FII010 1 01 3 . 3F_2015_KD0524_101_3_20150509_00000
The same of the sa



Looking west at 3" depression on levee crown. (Spring 2012)

LM Start	0.21	Rating **	М	Issue No.	3 (cont)
LM End	0.21	Issue Type +	Ma	Location *	CR

Photo 2 of 3: SP_2015_RD0524_107_3_20150309_00007.jpg



Looking west at depression on levee crown near waterward shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.21	Issue No.		3 (cont)			
LM End	0.21	Issue Type +	Ma	Location *	r* CR		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item		Crown Surface / Depressions /			90 °	37.938890	0
пеш	Rutting	Rutting			57 °	-121.343657	0
DWR ID	DWR_RD0524_01_s _ 2012_3						
	Action/Comments						

Repair depressions or ruts in the crown or slope. Inspector Comments: No change in status.



Looking east at 3" depression on levee crown. (Spring 2012)

LM Start	0.27	Rating **	U	Issue No.		179	
LM End	0.27	Issue Type + Ma		Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item	Trim / Thi	n Trees		37.9384	38 °	37.938438	0
пеш				-121.3428	83 °	-121.342883	0
DWR ID	DWR_RD0	524_01_s _ 201	4_179				

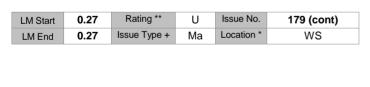
Action/Comments

Thin trees to allow visibility of the ground and room to flood fight.

Photo 1 of 2 : SP_2015	_RD0524_	_107_179_	_20150424	_00204.jpg
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				bessie
	1.4	•		

Looking north at untrimmed tree on waterward slope. (Spring 2015)

Photo 2 of 2: SP_2015_RD0524_107_179_20150309_00146.jpg





Looking south at untrimmed tree on waterward slope. (Fall 2014)

Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS : Land Side N/A : Not Applicable A : Acceptable N : Not Inspected/Rated WS: Water Side : Minimally Acceptable C : Corrected A/W: Acceptable but Monitor & Maintain CR : Crown U : Unacceptable En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.30 Rating ** U			Issue No.		174	
LM End	0.30	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Lat	itud	le/Longitude	
Calegory			Start		End		
Item	Animal Co	ontrol		37.93838	2 °	37.938382	0
пеш				-121.34235	2 °	-121.342352	0
DWR ID	DWR_RD0	524_01_f _ 201	4_174				

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comments: Several rodent holes present at this site.

Photo 1 of 2: SP_2015_RD0524_107_174_20150424_00205.jpg



Looking west at several rodent holes on waterward shoulder. (Spring 2015)

 LM Start
 0.30
 Rating **
 U
 Issue No.
 174 (cont)

 LM End
 0.30
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: SP_2015_RD0524_107_174_20150309_00144.jpg



Looking southeast at several rodent holes on waterward slope.

	1						_	
LM Start	0.34	Rating **	M	Issue No. 180		180		
LM End	0.34	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category	Category					End		
Item	Erosion /	Bank Caving		37.938461	0	37.938461	0	
пеш				-121.341626	0	-121.341626	0	
DWR ID	DWR_RD0	524_01_s _ 201	4_180					
		A .: /	_					

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope.

Photo 1 of 2 : SP_2015_RD0524_107_180_20150309_00147.jpg



Looking southeast at erosion on waterward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.34 Rating ** M			Issue No.		180 (cont)	
LM End	0.34	Issue Type +	Ма	Location *		WS	
Catagony	Catagoni Earthen Levee			GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		37.9384	61 °	37.938461	0
пеш				-121.3416	26 °	-121.341626	0
DWR ID	R ID DWR_RD0524_01_s _ 2014_180						
	Action/Comments						

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope.

Photo 2 of 2: SP_2015_RD0524_107_180_20150309_00148.jpg



Looking northeast at erosion on waterward toe.

LM Start	0.40	Rating **	U	Issue No.		131	
LM End	0.40	Issue Type + Ma		Location *		WS	
Category	Suppleme	ental		GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	DWR Ero	WR Erosion Survey			70°	37.938870	٥
item				-121.3404	60°	-121.340460	٥
DWR ID	DWR_RD0	524_01_s _ 201	5_131				

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

8/7/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2014 Site ID:RD0524U01RM40.99] 4/21/2015 Site repaired.

Photo 1 of 2 : SP_2015_RI	D0524_10	7_131_201	50424_00	206.jpg
		1	7	

Looking east at repaired site.

Photo 2 of 2: SP_2015_RD0524_107_131_20150309_00130.jpg



Front view of the erosion site. Note the vegetation at the levee toe and lower slope.

LM Start	0.40	Rating **	U	Issue No.	131 (cont)
LM End	0.40	Issue Type +	Ма	Location *	WS

Location LS : Land Side N/A : Not Applicable WS: Water Side

CR : Crown

Rating

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated : Corrected

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.41	Rating **	М	Issue No.		170	
LM End	0.65	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Slope Sta	bility		37.93862	28 °	37.938015 °	
item				-121.34038	35 °	-121.336165 °	
DWR ID DWR_RD0524_01_s _ 2015_170							

Action/Comments

Repair slope instability.

Inspector Comments: Several slope instabilites within this reach.

LM Start	0.41	Rating **	M	Issue No.	170 (cont)
I M End	0.65	Issue Type +	Ma	Location *	WS



Looking south at slope damage on waterward shoulder.

Photo 2 of 2: SP_2015_RD0524_107_170_20150424_00208.jpg



Looking west at waterward slope erosion.

LM Start	0.62	0.62 Rating ** M			Issue No.		
LM End	0.63	Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetatio	/egetation			8 °	37.938247 °	
item	em			-121.33652	4 °	-121.336503 °	
DWR ID DWR_RD0524_01_s _ 2012_11							
		A - 1' /	<u> </u>				

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Bamboo on waterward slope.



Looking southeast at bamboo on waterside slope. (Spring 2012)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.62	Rating **	М	Issue No.		11 (cont)
LM End	0.63	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory						End
Item	Vegetatio	n		37.93827	78 °	37.938247 °
пеш				-121.33652	24 °	-121.336503 °
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_11					

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Bamboo on waterward slope.

LM Start	0.62	Rating **	М	Issue No.	11 (cont)
LM End	0.63	Issue Type +	Ma	Location *	WS



Looking south at dying bamboo on waterward slope. (Spring 2013)

Photo 3 of 3: SP_2015_RD0524_107_11_20150309_00015.jpg



Looking south at bamboo on waterside slope. (Fall Inspection 2012)

LM Start	0.63	Rating **	М	Issue No.	10				
LM End	0.63	Issue Type +	Ma	Location *	WS				
Cotogon Earthen Levee				GPS Latitude/Longitude					
Category			Start		End				
ltom	Slope Sta	bility		37.9382	47 °	37.938247			
ltem '				-121.3365	03 °	-121.336503			
DWR ID DWR_RD0524_01_s _ 2012_10									
	Action/Comments								

Action/Comments

Repair the levee slope damaged by foot traffic and prevent access where possible.



Looking east at waterside erosion appears to be caused by runoff.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.64	Rating **	М	Issue No.		13		
LM End	0.65	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory	эгу			Start		End		
Item	Slope Stability			37.938105 °		37.938023 °		
пеш				-121.33628	38 °	-121.336173 °		
DWR ID	DWR_RD0	524_01_s _ 201	12_13					
Action/Comments								
Repair slope instability. Inspector Comments: Erosion extends from mid levee slope to shoulder.								

0.64 Rating ** Issue No. 13 (cont) LM Start

Ма

Location *

WS

Issue Type +

LM End

0.65



View of the erosion.



Photo 2 of 3: SP_2015_RD0524_107_13_20150309_00018.jpg

Looking south at erosion on waterside shoulder.

LM Start	0.64	Rating **	М	Issue No.	13 (cont)
LM End	0.65	Issue Type +	Ma	Location *	WS



Update view of the erosion site.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.67	Rating **	М	Issue No.		14
LM End	0.67	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	titud	e/Longitude
Calegory				Start		End
Item	Vegetatio	n		37.93780)8 °	37.937808 °
item				-121.33591	3°	-121.335913 °
DWR ID	DWR_RD0	524_01_s _ 201	2_14			

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Bamboo on waterward slope.

LM Start	0.67	Rating **	М	Issue No.	14 (cont)
LM End	0.67	Issue Type +	Ма	Location *	WS



Looking southeast at bamboo on waterside shoulder as of 4/2010.

Photo 2 of 3: SP_2015_RD0524_107_14_20150309_00021.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013) Photo 3 of 3: SP_2015_RD0524_107_14_20150309_00022.jpg

LM Start	0.67	Rating **	М	Issue No.	14 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS



Looking south at bamboo on waterside slope. (Fall 2012)

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Not Inspected/Rated
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

** Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.67	Rating **	М	Issue No.		934	
LM End	0.67	Issue Type +	En	Location *		WS	
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.93789	ı °	37.937891	
пеш				-121.335939	°	-121.335939	
DWR ID							

Action/Comments

Inspector Comments: FS_ID:17563

DS_ID:20592 EP_NO: 6035

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Flows from primer tank causing erosion on LS slope.

No Photos

LM Start	0.75	Rating **	М	Issue No.		935	
LM End	0.75	Issue Type +	En	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study	,	37.9369	51 °	37.936951	0
пеш				-121.3351	32 °	-121.335132	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:41463

DS_ID:20595 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.5-inch telephone conduit through levee 2.0 feet below crown and under the channel. Conduit visible on WS

shoulder.

FS Date: 08/16/2013

No Photos

LM Start	0.76	Rating **	U	Issue No.		132
LM End	0.76	Issue Type +	Ма	Location *	WS	
Category	GPS La	tituc	le/Longitude			
Category		Start		End		
Item	DWR Ero	sion Survey		37.936821 °		37.936821 °
пеш				-121.33458	2 °	-121.334582 °
DWR ID DWR_RD0524_01_s _ 2015_132						
Action/Comments						

Inspector Comments: 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The site has been visited by boat survey. No significant change observed.

08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion. [2014 Site ID:RD0524U01RM41.39]

Photo 1 of 1: SP_2015_RD0524_107_132_20150309_00131.jpg



Front view of the erosion site. Vegetation is visible.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

**Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

A/W: Acceptable but Monitor & Maintain Enforcement

*Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.77	Rating **	М	Issue No.		262	
LM End	0.77	Issue Type +	Ма	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		37.93655	55 °	37.936555	0
пеш				-121.33484	۰ ۲	-121.334847	0
DWR ID	DWR_RD0	524_01_s _ 201	2_262		Ò		

Action/Comments

Remove the wild growth other than native grasses from the levee

Inspector Comments: Dense vegetation at landside toe along fence line.



Looking southwest at vegetation on landward slope and toe. (Spring 2013)

LM Start	0.77	Rating **	М	Issue No.	262 (cont)
LM End	0.77	Issue Type +	Ma	Location *	LS

Photo 2 of 2: SP_2015_RD0524_107_262_20150309_00156.jpg



Looking west at dense vegetation on landside toe.

LM Start	0.78	Rating **	М	Issue No.		76	
LM End	0.78	Issue Type +	Ma	Location *	LS		
Category	evee		GPS Latitude/Longitude				
Category	Calegory					End	
Item	Trim / Thi	n Trees		37.93644	4 °	37.936444 °	
пеш				-121.33479	7°	-121.334797 °	
DWR ID DWR_RD0524_01_s _ 2012_76							
	Action/Comments						

Trim trees to at least five feet above ground level.



Looking southwest at low hanging tree branches at landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.79	Rating **	М	Issue No.		936
LM End	0.79	Issue Type +	En	Location *	LS	
Category	Suppleme	plemental GPS Latitude/Longitu			e/Longitude	
Calegory				Start		End
Item	DWR UC	IP Field Study		37.93647	4 °	37.936474 °
пеш				-121.33483) °	-121.334830 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:17571

DS_ID:20596 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Large hole in pipe at WS toe. Appears abandoned

and should be done so properly.

FIELD_STRUCT_DESC: 8-inch steel drain pipe through the levee 4.0 feet below the crown. Pump at the toe of the landward slope (not found 8/16/13). Siphon breaker in 24-inch cmp Riser on the waterward

slope. Originally included in the 1964 O&M manual.

FS Date: 08/16/2013

LM Start	0.81	Rating **	U	Issue No.		2			
LM End	0.81	Issue Type +	Ма	Location *		LS			
Category	Catagon Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End				
Item	Erosion /	Bank Caving	Bank Caving		93 °	37.936004°			
Item				-121.3346	48 °	-121.334615 °			
DWR ID	DWR_RD0	524_01_f _ 201	3_2						

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope.

Photo 1 of 5: SP_2015_RD0524_107_2_20150309_00001.jpg

No Photos



Looking southwest at hole on landward shoulder.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.81	Rating **	U	Issue No.		2 (cont)
LM End	0.81	Issue Type +	Ма	Location *		LS
Catagony	Cotogon/ Earthen Levee			GPS Latitude/Longitude		
Calegory	Category			Start		End
Item	Erosion /	Bank Caving		37.93609	3°	37.936004 °
пеш			-121.33464	8 °	-121.334615 °	
DWR ID	DWR_RD0	524_01_f _ 201	3_2			·

Action/Comments

Schedule repair of erosion site prior to the next inspection.
Inspector Comments: Several holes and finger erosions on landward slope.

LM Sta	t 0.81	Rating **	U	Issue No.	2 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : SP_2015_RD0524_107_2_20150309_00002.jpg

Looking west at hole on landward shoulder.

Photo 3 of 5: SP_2015_RD0524_107_2_20150309_00003.jpg



Looking southeast at finger erosion on landward slope.

LM Start	0.81	Rating **	U	Issue No.	2 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS



Looking east at erosion on landward slope.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.81	Rating **	U	Issue No.		2 (cont)	
LM End	0.81	Issue Type +	Ma	Location *		LS	
Category	Catagoni Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Erosion /	Bank Caving		37.93609	93 °	37.936004 °	
пеш			-121.334648 °				
DWR ID	DWR ID DWR_RD0524_01_f _ 2013_2						

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope.

Photo 5 of 5: SP_2015_RD0524_107_2_20150309_00005.jpg



Looking northeast at several finger erosion on landward slope.

LM Start	0.83	Rating **	U	Issue No.		133
LM End	0.83	Issue Type +	Ма	Location *		WS
Category Supplemental			GPS La	tituc	le/Longitude	
Category				Start		End
Item	DWR Ero	sion Survey		37.9359	30°	37.935930
item			-121.3341	33 °	-121.334133	
DWR ID DWR_RD0524_01_s _ 2015_133						

Action/Comments

Inspector Comments: 06/19/2014: No significant change observed. 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2014 Site ID:RD0524U01RM41.44]

Photo 1 of 1 : SP_2015_RD0524_107_133_20150309_00132.jpg



Close view of the site. Dense vegetation covers the erosion.

LM Start	0.91	Rating **	U	Issue No.		134
LM End	0.91	Issue Type +	Ма	Location *		WS
Category	Supplemental			GPS Lat	ituc	le/Longitude
Calegory			Start		End	
Item	DWR Ero	sion Survey		37.93557	6°	37.935576
пеш				-121.33320	2 °	-121.333202
DWR ID	DWR_RD0524_01_s _ 2015_134					

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: The erosion site is immediately downstream of the riprap protection. [2014 Site ID:RD0524U01RM41.5]

Photo 1 of 1: SP_2015_RD0524_107_134_20150309_00133.jpg



Front view of the erosion. Note the riprap protection near the site.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.92	Rating **	М	Issue No.		122	
LM End	0.92	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	ments		37.93526	7 °	37.935267	0
пеш				-121.33298	5 °	-121.332985	0
DWR ID	DWR_RD0524_01_s _ 2013_122						

Action/Comments

Pipe

Inspector Comments: Inch and half metal pipe should be removed.





Looking northwest at inch and half metal pipe on waterward slope.

LM Start	0.93	Rating **	М	Issue No.		77	
LM End	1.01	1.01 Issue Type + Ma				LS	
Catagonia Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Trim / Thi	n Trees		37.9352	59°	37.935049°	
пеш				-121.3328	64 °	-121.331334°	
DWR ID	DWR_RD0524_01_s _ 2012_77						
		A .: /	_				

Action/Comments

Trim trees to at least five feet above ground level.

Photo 1 of 1 : SP_2015_RD0524_107_77_20150309_00089.jpg



Looking south at low hanging tree branches at landside toe.

LM Start	0.96	Rating **	A/W	Issue No.	20		
LM End	0.96	Issue Type +	Ма	Location *	WS		
Category	Earthen L	.evee		GPS Lat	itud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thin Trees				1 °	37.935181	0
пеш				-121.33229	7 °	-121.332297	0
DWR ID DWR_RD0524_01_f _ 2013_20							
Action/Comments							

Action/Comments

Trim trees over roadway to at least 12 feet above ground level.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	0.98	Rating **	M	Issue No.		937	
LM End	0.98	Issue Type +	En	Location *		WS	
Catagony	Category Supplemental			GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.9351	78 °	37.935178	0
пеш				-121.3320	29 °	-121.332029	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:22724

DS_ID:20597 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through the levee 6.0 feet below the crown. Concrete pad for pump on WS shoulder. No pump or other appurtances remain. Originally included in the 1964

O&M manual. FS Date: 08/16/2013

LM Start	1.00	Rating **	U	Issue No.		135		
LM End	1.00	Issue Type +	Ма	Location *		WS		
Category	Supplemental			GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR Erosion Survey			37.9354	10°	37.935410 °		
item				-121.3315	60 °	-121.331560 °		
DWR ID	DWR_RD0524_01_s _ 2015_135							

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The erosion was discovered during the boat survey. [2014 Site ID:RD0524U01RM41.58]

 LM Start
 1.00
 Rating **
 M
 Issue No.
 17

Photo 1 of 1 : SP_2015_RD0524_107_135_20150309_00134.jpg

No Photos



Close view of the erosion.

LM Start	1.00	Rating **	М	Issue No.		17
LM End	1.02	Issue Type +	Ма	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Category				Start		End
Item	Erosion /	Bank Caving		37.935098	3°	37.935018 °
пеш				-121.33164	5°	-121.331248 °
DWR ID	DWR_RD0524_01_s _ 2012_17					·

Action/Comments

Schedule repair of erosion site prior to the next inspection.

Inspector Comments: Minor erosion was noted next to repaired site.



Looking upstream (south) at erosion site.

d					
	* Location		** Rating		+ Issue Type
	LS : Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
	WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
ı	CR · Crown		U · Unaccentable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.00	Rating **	М	Issue No.		17 (cont)	
LM End	1.02	Issue Type + Ma		Location *		WS	
Category Earthen Levee				GPS La	titud	le/Longitude	
Calegory			Start		End		
Item	Erosion /	Bank Caving		37.93509	98 °	37.935018	0
item			-121.33164	15 °	-121.331248	0	
DWR ID DWR_RD0524_01_s _ 2012_17							

Action/Comments

Schedule repair of erosion site prior to the next inspection.

Inspector Comments: Minor erosion was noted next to repaired site.



Looking southeast at erosion next to repaired site on waterward slope (Spring 2013)

LM Start	1.00	Rating **	М	Issue No.	17 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS

Photo 3 of 3: SP_2015_RD0524_107_17_20150309_00025.jpg



Looking north at erosion site next to repaired site. (Spring 2012)

Photo 1 of 1: SP_2015_RD0524_107_139_20150309_00136.jpg

LM Start	1.00 Rating ** U Issue No. 13					139	
LM End	1.00	Issue Type +	Ма	Location *	WS		
Category	GPS La	tituc	le/Longitude				
Calegory	Category					End	
Item	DWR Ero	sion Survey		37.93532	26 °	37.935326	0
item				-121.33153	37 °	-121.331537	0
DWR ID DWR_RD0524_01_s _ 2015_139							
Action/Comments							

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site.

08/23/2011: The site is about 500 ft downstream of bridge. The levee



Front view of the site.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.08	Rating **	M	Issue No.		938	
LM End	1.08	Issue Type +	En	Location *	WS		
Category	Suppleme	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.9347	78 °	37.934778	0
пеш				-121.3304	60 °	-121.330460	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18703

DS_ID:20600 EP_NO: 2725B

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Given amount of rust on adjacent CMP riser, it may

be appropriate to do a video inspection of this pipe.

FIELD_STRUCT_DESC: 36-inch concrete encased pipe through levee 11.5 feet below crown. Pump in pump house on the landward side. Flap gate on the waterward end. Two concrete cutoff walls. Siphon breaker in 8-inch CMP riser unit on the landward slope (Permit No.

2725B. 1959). Included in the 1964 O&M manual.

FS Date: 08/16/2013

LM Start	1.08	Rating **	М	Issue No.		18
LM End	1.08	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory			Start		End	
Item	Slope Sta	bility	oility			37.934645 °
item			-121.3303	10 °	-121.330310 °	
DWR ID	DWR_RD0	524_01_s _ 201	2_18			

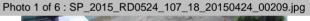
Action/Comments

Repair slope instability.

Inspector Comments: Slope damage extend from shoulder to middle of

slope.

No Photos





Looking south at caving on landward shoulder. (Spring 2015)

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.08	1.08 Rating ** M				18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	on * LS	
Category	evee	GPS La	tituc	le/Longitude		
Calegory		Start		End		
Item	Slope Sta	bility		37.93464	15 °	37.934645 °
пеш				-121.33031	0 °	-121.330310 °
DWR ID DWR_RD0524_01_s _ 2012_18						
	Action/Comments					

Repair slope instability.

Inspector Comments: Slope damage extend from shoulder to middle of slope.

LM Start	1.08	Rating **	М	Issue No.	18 (cont)
I M End	1.08	Issue Type +	Ma	Location *	LS



Landward slope damage.

Photo 3 of 6: SP_2015_RD0524_107_18_20150309_00027.jpg



Updated picture of the erosion site on the landside shoulder.

LM Start	1.08	Rating **	М	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS



Looking south at caving on landside shoulder. (Sping 2012)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.08	Rating **	М	Issue No.		18 (cont)	
LM End	1.08	Issue Type +	Ма	Location *		LS	
Category	Earthen L	GPS Latitude/Longitude					
Calegory	Category				Start		
Item	Slope Sta	Slope Stability			45 °	37.934645	0
item			-121.3303	10 °	-121.330310	0	
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_18						

Action/Comments

Repair slope instability.

Inspector Comments: Slope damage extend from shoulder to middle of slope.

Photo 5 of 6 : SP	_2015_RD0524_107	'_18_20150309_00	029.jpg
0			A. C.
3	Jack Con.		
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经验		AN	Va.
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			- 11
	A LA THE STATE OF		375

Looking at updated slope stability as of 4/2010.

LM Start	1.08	Rating **	М	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS



Updated view from above the slope stability.

LM Start	1.08	Issue No.	939				
LM End	1.08	Issue Type +	En	Location *	LS		
Category	GPS La	titud	e/Longitude				
Category				Start		End	
Item	DWR UCIP Field Study			37.93475	0°	37.934750	0
пеш		-121.33040)5 °	-121.330405	0		
DWR ID							
Action/Comments							

Inspector Comments: FS_ID:17589

DS_ID:20601 EP_NO: 2725B

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: CMP riser severely corroded. Good indicator of

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.12	Rating **	М	Issue No.		171	
LM End	1.16	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory	Calegory				Start		
Item	Encroach	Encroachments			25 °	37.933815	0
item			-121.3296	93 °	-121.329242	0	
DWR ID	DWR_RD0524_01_s _ 2015_171						

Action/Comments

Prunings

Inspector Comments: Prunings left on waterward shoulder and slope.



Looking south at prunings on waterward shoulders.

LM Start	1.13	Rating **	A/W	Issue No.		175
LM End	1.13	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory	gory			Start		End
Item	Trim / Thin Trees			37.9341	71 °	37.934171 °
item				-121.3295	84 °	-121.329584°
DWR ID	DWR_RD0524_01_f _ 2014_175					

Action/Comments

Trim trees over roadway to at least 12 feet above ground level.

No Photos

LM Start	1.13	Rating **	М	Issue No.		19	
LM End	1.16	Issue Type +	Ma	Location *		WS	
Category	.evee	GPS La	tituc	le/Longitude			
Category				Start		End	
Item	Trim / Thin Trees			37.9341 ²	18 °	37.933775 °	
пеш				-121.3296	57 °	-121.329305 °	
DWR ID DWR_RD0524_01_s _ 2012_19							
	Action/Comments						

Trim trees to at least five feet above ground level.



Looking northwest at low hanging tree branches at waterside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.16	Issue No.		915			
LM End	1.23	Issue Type +	Ma	Location *		LS	
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetatio	Vegetation			75 °	37.932784	0
пеш				-121.3292	50 °	-121.328765	0
DWR ID	DWR_RD0	524_01_s _ 201	2_915				

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.



Looking southwest at dense veg. on landside toe.

LM Start	1.19 Rating ** U		Issue No.		141	
LM End	1.19	Issue Type +	Ma	Location *		WS
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR Erosion Survey			37.9333	47 °	37.933347
item				-121.3291	10 °	-121.329110
DWR ID	DWR_RD0	524_01_s _ 201	5_141			

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: No significant change observed on site.

9/07/2010: No significant change observed on site. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank.

9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe.

10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2014 Site ID:RD0524U01RM41.79]

Photo 1 of 1: SP_2015_RD0524_107_141_20150309_00137.jpg



Direct view of the site.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.25 Rating ** U		Issue No.		263		
LM End	1.25	Issue Type +	En	Location *		LS	
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	ments		37.93253	33 °	37.932533	0
nem		-121.3286	50 °	-121.328650	0		
DWR ID	DWR_RD0	524_01_s _ 201	2_263				

Action/Comments

Ramp

Inspector Comments: Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic.

LM Start	1.25	Rating **	U	Issue No.	263 (cont)
LM End	1.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : SP_2015_RD0524_107_263_20150309_00157.jpg

Looking northwest at unauthorized ramp on landside slope.

Photo 2 of 2: SP_2015_RD0524_107_263_20150309_00158.jpg



Looking south at unauthorized ramp on landside slope.

LM Start	1.30	Rating **	М	Issue No.	33		
LM End	1.30	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Encroach	ments		37.93194	18 °	37.931948 °	
пеш				-121.32838	37 °	-121.328387 °	
DWR ID	DWR_RD0	2_33					
Action/Comments							

Pipe

Inspector Comments: Pipe is not in use and should be properly abandoned.



Looking west at pipe on landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.30 Rating ** M		Issue No.		33 (cont)	
LM End	1.30	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS La	titud	e/Longitude
Calegory	Category			Start		End
Item	Encroach	Encroachments			8 °	37.931948 °
пеш				-121.32838	7 °	-121.328387 °
DWR ID	DWR_RD0	524_01_s _ 201	2_33			

Action/Comments

Pipe

Inspector Comments: Pipe is not in use and should be properly abandoned.

Photo 2 of 2: SP_2015_RD0524_107_33_20150309_00047.jpg



Looking north at broken pipe.

LM Start	1.30 Rating ** U		Issue No.		142	
LM End	1.30	Issue Type +	Ma	Location *		WS
Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR Erosion Survey			37.9318	58 °	37.931858
item				-121.3283	00 °	-121.328300
DWR ID	DWR_RD0524_01_s _ 2015_142					

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: New signs of animal activity were found.

08/07/2012: The site was first reported in 2012 spring levee inspection report. [2014 Site ID:RD0524U01RM41.92]



Front view of the erosion. Note the drainage pipe on the site.

No Photos

LM Start	1.31	Rating **	U	Issue No.	940		
LM End	1.31	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS Lati	tud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.93197	7 °	37.931977	0
пеш				-121.32840°	°	-121.328401	0
DWR ID							
		A -4: /	C	-1-			

Action/Comments

Inspector Comments: FS_ID:41271

DS_ID:20602 EP NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Pipe appears to be open on both ends. Abandoned

and should be done so properly.

FIELD_STRUCT_DESC: *Abandoned* 12-inch pipe through levee 3.5 feet below crown. Open on both ends. Originally included in the 1964 O&M manual.

FS Date: 08/16/2013

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.32	Rating **	M	Issue No.		130	
LM End	1.36	Issue Type +	Ма	Location *		CR	
Category	Earthen L	arthen Levee			atitud	e/Longitude	
Calegory				Start		End	
Item		ırface / Depres	ssions /	37.9316	58 °	37.931085	0
пеш	Rutting	Rutting		-121.3282	55 °	-121.328112	0
DWR ID	DWR_RD0	0524_01_s _ 201	3_130				
		Action/	Commo	ntc			

Add appropriate gravel or road base. Grade and compact.

No Photos

LM Start	1.35	Rating **	U	Issue No.		172	
LM End	1.40	Issue Type +	Ma	Location *	on * CR		
Category	Earthen Levee			GPS Lat	tud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	37.93114	3°	37.930517	0
item	Rutting			-121.32809 ⁻	7 0	-121.328072	0
DWR ID	DWR_RD0	524_01_s _ 201	5_172				

Action/Comments

Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.

LM Start	1.35	Rating **	U	Issue No.	172 (cont)
LM End	1.40	Issue Type +	Ma	Location *	CR

Photo 1 of 2: SP_2015_RD0524_107_172_20150424_00211.jpg



Looking east at depression on levee crown.

Photo 2 of 2 : SP_2015_RD0524_107_172_20150424_00212.jpg



Looking southeast at depression on levee crown.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.39	Rating **	U	Issue No.		143	
LM End	1.39	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental	GPS Lat	ituc	le/Longitude		
Calegory				Start		End	
Item	DWR Ero	sion Survey		37.93057	5 °	37.930575	0
пеш				-121.32809	0 °	-121.328090	0
DWR ID	DWR_RD0	524_01_s _ 201	5_143				

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge. [2014 Site ID:RD0524U01RM42.03]



Front view of the erosion.

LM Start	1.46	Rating **	U	Issue No.		144	
LM End	1.46	Issue Type + Ma		Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR Ero	sion Survey		37.9296	50°	37.929650	0
iteiii				-121.3281	10 °	-121.328110	0
DWR ID	DWR_RD0	524_01_s _ 201	5_144				

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2014 Site ID:RD0524U01RM42.09]



Front view of the erosion site.

Photo 1 of 3: SP_2015_RD0524_107_916_20150309_00165.jpg

LM Start	1.49	Rating **	М	Issue No.		916	
LM End	1.49	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS La	titud	e/Longitude		
Calegory				Start End		End	
Item	Trim / Thi	n Trees		37.9291	8 °	37.929118	٥
пеш				-121.32836	88°	-121.328368	٥
DWR ID	DWR_RD0	524_01_s _ 201	2_916				

Action/Comments

Trim and thin trees to allow visibility of the ground and room to flood fight.



Dense vegetation on landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.49 Rating ** M			Issue No.		916 (cont)			
LM End	1.49	Issue Type +	Ma	Location *		la Location * LS		LS	
Category	Category Earthen Levee			GPS Latitude/Longitude					
Calegory				Start		End			
Item	Trim / Thi	n Trees		37.9291	18 °	37.929118	0		
пеш					68 °	-121.328368	0		
DWR ID	DWR_RD0524_01_s _ 2012_916								

Action/Comments

Trim and thin trees to allow visibility of the ground and room to flood fight.

LM Start	1.49	Rating **	М	Issue No.	916 (cont)
LM End	1.49	Issue Type +	Ma	Location *	LS



Looking south at trees on landside slope. (Fall 2012)

Photo 3 of 3: SP_2015_RD0524_107_916_20150309_00167.jpg



Looking south at dense veg. on landside slope and toe.

LM Start	1.55	Rating **	A/W	Issue No.	23		
LM End	1.59	Issue Type +	Ma	Location *	LS		
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		37.9283	88 °	37.927797 °	
пеш				-121.3282	80 °	-121.327854 °	
DWR ID	DWR_RD0524_01_s _ 2012_23						
	Action/Comments						

Remove the wild growth other than native grasses from the levee slopes.



Overgrown landscaping on landward slope from LM 1.56 to 1.74

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.55 Rating ** A/W			Issue No.		23 (cont)		
LM End	1.59	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory				Start		End		
Item	Vegetatio	n		37.9283	88 °	37.927797 °		
item					80 °	-121.327854 °		
DWR ID	DWR_RD0524_01_s _ 2012_23							
	Action/Comments							

Remove the wild growth other than native grasses from the levee slopes.

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS

Photo 2 of 5: SP_2015_RD0524_107_23_20150309_00035.jpg



Looking north from landward berm at corrected site.

Photo 3 of 5: SP_2015_RD0524_107_23_20150309_00036.jpg



Looking east from landward berm at corrected site. Photo 4 of 5: SP_2015_RD0524_107_23_20150309_00037.jpg

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS



Looking south from levee crown at corrected site.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.55 Rating ** A/W		Issue No.		23 (cont)		
LM End	1.59 Issue Type + Ma		Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory		Start		End			
Item	Vegetatio	n		37.92838	8 °	37.927797	0
пеш				-121.32828	0 °	-121.327854	۰
DWR ID	DWR_RD0524_01_s _ 2012_23						

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.



Looking south from levee crown at upstream end of corrected site.

LM Start	1.56 Rating ** M		Issue No.		941		
LM End	1.56 Issue Type + En		Location *		LS		
Category			GPS Latitude/Longitude				
Calegory				Start		End	
Item	DWR UCIP Field Study			37.9284	29 °	37.928429	0
item				-121.3282	97 °	-121.328297	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:17798

DS_ID:20605 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: Fiber optics cable crossing. USAA marker

flags over crown along alignment of gate. FS Date: 08/20/2013

LM Start	1.58	Rating **	U	Issue No.	173	
LM End	1.58	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Trim / Thin Trees		37.92797	'5 °	37.927975 °	
item				-121.32808	88 °	-121.328088 °
DWR ID DWR_RD0524_01_s _ 2015_173						
Action/Comments						

Trim trees to at least five feet above ground level.

Inspector Comments: Tree is located on landward shoulder and crown should be removed.



Looking northwest at tree on within levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.59	Rating **	U	Issue No.		145
LM End	1.59	Issue Type +	Ma	Location *		WS
Category Supplemental			GPS Latitude/Longitude			
Category			Start		End	
Item	DWR Erosion Survey		37.92777	o°	37.927770°	
item		-121.32787	o°	-121.327870 °		
DWR ID	DWR_RD0	524_01_s _ 201	5_145			

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: No significant change observed on site. Trees concerned still in place.

09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.

09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2014 Site ID:RD0524U01RM42.2]



Front view of the site where undermining has occurred.

LM Start	1.59	Rating **	М	Issue No.	ie No. 136		
LM End	1.59	Issue Type +	Ma	Location *		CR	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Stability			37.9277	75 °	37.927775 °	
пеш				-121.327860 °		-121.327860 °	
DWR ID	DWR_RD0	524_01_s _ 201	3_136				

Action/Comments

Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comments: Waterward shoulder caving.



Looking south at depression on levee crown near wateward shoulder.

** Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.60	Rating **	М	Issue No.		24																	
LM End	1.61	Issue Type + Ma Location *		Issue Type + Ma Location *		Issue Type + Ma Location		1.61 Issue Type + Ma Location		1.61 Issue Type + Ma Location *		1.61 Issue Type + Ma Location *		1.61 Issue Type + Ma Location *		.61 Issue Type + Ma Location *		1.61 Issue Type + Ma Location *		Issue Type + Ma Location *			LS
Category	Earthen Levee			GPS Latitude/Longitude																			
Calegory			Start		End																		
Item	Vegetation			37.92763	35 °	37.927540 °																	
item			-121.3278	12 °	-121.327648 °																		
DWR ID DWR_RD0524_01_s _ 2012_24																							

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Vegetation blocking landward toe.

LM Start	1.60	Rating **	М	Issue No.	24 (cont)
LM End	1.61	Issue Type +	Ma	Location *	LS



Looking south at vegetation blocking view of landward toe.

Photo 2 of 2: SP_2015_RD0524_107_24_20150309_00040.jpg



Looking north at dense vegetation on the landside and waterside slopes.

LM Start	1.60	Rating **	A/W	Issue No.	25	
LM End	1.61	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Vegetation			37.927635 °		37.927540 °
item				-121.327812 °		-121.327648 °
DWR ID DWR_RD0524_01_s _ 2012_25						
Action/Commants						

Remove the wild growth other than native grasses from the levee slopes.



Looking southeast at dense vegetation on the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.62	Rating **	М	Issue No.		26		
LM End	1.64	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Erosion /	Bank Caving		37.92750	7°	37.927295	0	
пеш				-121.32759	3 °	-121.327298	0	
DWR ID DWR_RD0524_01_s _ 2012_26								

Action/Comments

Note and monitor erosion site.

Inspector Comments: Several erosions along this reach.

		1			
LM Start	1.62	Rating **	М	Issue No.	26 (cont)
IM End	1 64	Issue Type +	Ma	Location *	WS



Looking south at waterward erosion.

Photo 2 of 3: SP_2015_RD0524_107_26_20150424_00215.jpg



Looking east at waterward erosion.

LM Start	1.62	Rating **	М	Issue No.	26 (cont)
LM End	1.64	Issue Type +	Ma	Location *	WS



Looking east at waterward erosion and depression.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated

M: Minimally Acceptable C: Corrected

U: Unacceptable A/W: Acceptable but Monitor & Maintain

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

+ Issue Type

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.		39		
LM End	1.64	Issue Type +	En	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Encroach	ments		37.92737	2 °	37.927372	0	
пеш				-121.32727	8 °	-121.327278	0	
DWR ID DWR_RD0524_01_s _ 2012_39								

Action/Comments

Pole

Inspector Comments: Landowner constructed boat dock without permission from the CVFPB.

LM Start	1.64	Rating **	U	Issue No.	39 (cont)
LM End	1.64	Issue Type +	En	Location *	WS



Looking at garbage on waterside slope.

Photo 2 of 2: SP_2015_RD0524_107_39_20150309_00058.jpg



Looking east at non-permitted boat dock.

LM Start	1.65	Rating **	N	Issue No.		8	
LM End	1.68	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS La	atitud	e/Longitude		
			Start	End			
Item	Trim / Thi	n Trees		37.9272	55 °	37.926855	0
пеш				-121.3271	37 °	-121.326672	0
DWR ID DWR_RD0524_01_s _ 2012_8							
	Action/Comments						

Tree stumps.

Inspector Comments: Several tree stumps on waterside shoulder.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.67	Rating **	М	Issue No.		45
LM End	1.67	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitu	de/Longitude
Calegory				Start		End
Item	Encroach	Encroachments			18 °	37.927018 °
item			-121.3268	72 °	-121.326872 °	
DWR ID DWR_RD0524_01_s _ 2012_45						
		Action/	Comme	nts		
Stairway Inspector (Comments	: Stairs and re	etaining	wall		

Photo 1 of 3: SP_2015_RD0524_107_45_20150309_00062.jpg

Looking northeast at non-permitted concrete stairs on waterside slope.

 LM Start
 1.67
 Rating **
 M
 Issue No.
 45 (cont)

 LM End
 1.67
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 3 : SP_2015_RD0524_107_45_20150309_00063.jpg



Looking southwest at retaning wall connected to concrete stairs.

LM Start	1.67	Rating **	М	Issue No.	45 (cont)
LM End	1.67	Issue Type +	Ma	Location *	WS



Looking west at concrete stairs on waterside slope.

*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

**Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable U : Unacceptable U : Unacceptable A/W : Acceptable but Monitor & Maintain

**Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.69	Rating **	М	Issue No.		27
LM End	1.70	Issue Type + Ma		Location *		WS
Category	Earthen Levee			GPS La	titud	le/Longitude
Calegory				Start		End
Item	Slope Sta	bility		37.92672	28 °	37.926730 °
пеш			-121.32659	97 °	-121.326508 °	
DWR ID DWR_RD0524_01_s _ 2012_27						

Action/Comments

Repair slope instability.

Inspector Comments: Slope damage several feet long and greater than one inch deep.



Looking south at landward slope drepression.

Photo 1 of 2: SP_2015_RD0524_107_28_20150309_00042.jpg

LM Start	1.73	Rating **	A/W	Issue No.		28
LM End	1.73	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory	gory					End
Item	Encroach	ments		37.9263	22 °	37.926322 °
пеш				-121.3261	15 °	-121.326115 °
DWR ID DWR_RD0524_01_s _ 2012_28						

Action/Comments

A/W

Issue No.

Location '

Garbage

LM Start

LM End

1.73

1.73

Inspector Comments: Large pruning piles on landside slope.

Rating **

Issue Type +

		, i dia	
	-		
1.4	Y I S		
	100	5 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
		KUERTER !	
	A STATE OF		3-9

Looking southwest at trash and a pruning pile on landward berm.

Photo 2 of 2: SP_2015_RD0524_107_28_20150309_00043.jpg



Looking at southwest at a pruning pile at landward berm.

	The state of the s

28 (cont)

LS

Location LS : Land Side N/A : Not Applicable WS: Water Side

CR : Crown

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	46		
LM End	1.76	Issue Type +	Ма	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start End			
Item	Encroach	ments		37.9261	52 °	37.925993	0
пеш				-121.32592	27 °	-121.325777	0
DWR ID DWR_RD0524_01_s _ 2012_46							
		Action/	Comme	nts			

Tree or limb

Inspector Comments: Downed tree limbs on landward slope.

LM Start	1.75	Rating **	U	Issue No.	46 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS



Looking south at tree limbs on landward slope.

Photo 2 of 4: SP_2015_RD0524_107_46_20150309_00066.jpg



Looking southwest at tree limbs on landward slope.

LM Start	1.75	Rating **	U	Issue No.	46 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS



Looking south at tree limbs on landward slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable CR : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Acceptable N : Not Inspected/Rated Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.		Issue No. 46 (c		46 (cont)	
LM End	1.76	Issue Type +	Ма	Location *		LS			
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Encroach	ments		37.92615	2 °	37.925993	٥		
пеш			-121.32592	7 °	-121.325777	0			
DWR ID DWR_RD0524_01_s _ 2012_46									

Action/Comments

Tree or limb

Inspector Comments: Downed tree limbs on landward slope.



Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

Photo 1 of 1: SP_2015_RD0524_107_181_20150309_00149.jpg

LM Start	1.76	Rating **	A/W	Issue No.		181
LM End	1.76	Issue Type +	Ma	Location *	N/A	
Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End
ltom	Encroach	ments		37.9259	72 °	37.925972 °
пеш	Item			-121.3257	69 °	-121.325769 °
DWR ID DWR_RD0524_01_s _ 2014_181						
		Action/	Commo	ntc		

Action/Ooi

Material

Inspector Comments: Landowner stockpiling pallets at landward toe.



Looking west at wooden pallets at landward toe.

LM Start	1.78	Rating **	A/W	Issue No.		100		
LM End	1.78	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Encroach	incroachments			2 °	37.925752 °		
Item				-121.32559	2 °	-121.325592 °		
DWR ID	DWR_RD0	524_01_s _ 201	2_100					
	Action/Comments							

Prunings



Looking southwest at prunings on landside toe.

* Location	** Rating		+ Issue Type	
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy	
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	
Thums down home 44, 0045, 40:44			*	D 07 -f 400

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start 1.82 Rating ** Issue No. 942 М 1.82 Issue Type + En Location * LS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 37.925480° 37.925480° Item -121.325358 ° -121.325358 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:21866

DS_ID:24032 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for crossing.

FIELD_STRUCT_DESC: 12-inch wrapped steel irrigation pipe through the levee at an unknown depth below the crown. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50-feet off LS toe. Siphon breaker in 14-inch concrete standpipe on LS shoulder.

FS Date: 08/20/2013

LM Start	1.83	Rating **	М	Issue No.		943	
LM End	1.83	Issue Type +	En	Location *		LS	
Category	Suppleme	ental		GPS Lati	tuc	le/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study	,	37.92543°	۱°	37.925431	0
item				-121.325310	°	-121.325310	0
DWR ID							
			_				

Action/Comments

Inspector Comments: FS_ID:21865

DS_ID:24033 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipes apear abandoned and should be removed from

levee.

FIELD_STRUCT_DESC: One 1-inch and two 3/4-inch PVC conduits

through the levee 6-inches below the crown.

FS Date: 08/20/2013

No Photos

No Photos

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.83	Rating **	М	Issue No.	944			
LM End	1.83	Issue Type +	En	Location * LS		LS		
Catagony	Supplemental			GPS Latitude/Longitude				
Calegory	Category				Start			
Item	DWR UC	IP Field Study		37.92542	e e	37.925429		
item				-121.32532	3°	-121.325323		
DWR ID								

Action/Comments

Inspector Comments: FS_ID:17847

DS_ID:20609 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned and if so should be done so

properly

FIELD_STRUCT_DESC: 14-inch pipe through levee 20.0 feet below crown, 2 pumps and gate valves discharge into surge tank in pump house on the waterward slope. Concrete distribution box removed from the waterward slope. Abandoned 36-inch diameter concrete standpipe on LS toe next to service pole. Originally included in the 1964 O&M

manual.

FS Date: 08/20/2013

Photo 1 of 1 : SP	2015 RD0524	107 78	20150309	00090.ipg

No Photos



Looking southwest at landscaping on landside slope. (Spring 2012)

LM Start	1.90	Rating **	М	Issue No.		78	
LM End	1.94	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS La	atituc	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.9243	64 °	37.923805 °	
пеш				-121.3244	73 °	-121.324238 °	
DWR ID	DWR_RD0	524_01_s _ 201	2_78				
		Action/	Comme	nts			
Landscaping							

Location LS : Land Side N/A : Not Applicable WS: Water Side

CR : Crown

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.94	Rating **	A/W	Issue No.		104	
LM End	1.94	Issue Type +	En	Location *		WS	
Category	Earthen Levee			GPS La	titud	e/Longitude	
Calegory						End	
Item	Vegetatio	/egetation			08 °	37.923808	0
item				-121.32426	60°	-121.324260	0
DWR ID	DWR_RD0	524_01_s _ 201	2_104				

Action/Comments

Remove the wild growth other than native grasses from the levee

Inspector Comments: Bamboo outside of the twenty foot vegetation zone.

LM Start	1.94	Rating **	A/W	Issue No.	104 (cont)
LM End	1.94	Issue Type +	En	Location *	WS

Photo 1 of 2: SP_2015_RD0524_107_104_20150309_00106.jpg



Looking northeast at sprayed bamboo on waterside slope. (Fall 2012)

Photo 2 of 2: SP_2015_RD0524_107_104_20150309_00107.jpg



Looking southeast at bamboo on waterside slope.

Photo 1 of 2: SP_2015_RD0524_107_176_20150424_00218.jpg

LM Start	1.94	Rating **	U	Issue No.	176		
LM End	1.94	Issue Type +	Ма	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Erosion /	Bank Caving		37.9236	88 °	37.923688	٥
пеш					23 °	-121.324223	٥
DWR ID	DWR_RD0	524_01_s _ 201	5_176				
Action/Comments							

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landward caving (3 x 18" x 5) caused by broken sprinklers.



Looking west at erosion within landscaping on landward shoulder and slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	1.94 Rating ** U			Issue No.		176 (cont)		
LM End	1.94 Issue Type + Ma		Location *		LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Erosion /	Bank Caving		37.92368	3°	37.923688	٥	
пеш					3°	-121.324223	٥	
DWR ID	DWR_RD0							

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landward caving (3 x 18" x 5) caused by broken sprinklers.



Looking east at erosion within landscaping on landward slope and shoulder.

LM Start	1.99 Rating ** M		Issue No.		4			
LM End	1.99 Issue Type + En		Location *		LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Encroach	ments		37.9230	68°	37.923068	٥	
пеш				-121.3239	90°	-121.323990	٥	
DWR ID	DWR_RD0							

Action/Comments

Stairway

Inspector Comments: Landowner installed rubber tires for a stairway on landside slope.

Photo 1 of 1 : SP_2015_RD0524_107_4_20150309_00009.jpg



Looking west at rubber tires being used as stairs on landside slope.

LM Start	1.99	Rating **	M	Issue No.	105		
LM End	1.99	Issue Type +	En	Location *	LS		
Category	Earthen L	.evee		GPS La	tituc	de/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			37.92303	32 °	37.923032	c
пеш					33 °	-121.323933	c
DWR ID	DWR_RD0						
		A .: /	_	-1-			

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.00	Rating **	М	Issue No.		106	
LM End	2.00	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	le/Longitude	
Category						End	
Item	Vegetation			37.922923 °		37.922923 °	
пеш			-121.323837 °		° -121.323837 °		
DWR ID	DWR_RD0	524_01_s _ 201	2_106				
		Action/	Comme	nts			
Landscapi	ng						



Looking southwest at ground cover on landward slope.

LM Start	2.01 Rating ** M		Issue No.		182	
LM End	2.04 Issue Type + En		Location *		LS	
Catagony	Earthen L		GPS La	atituc	le/Longitude	
Category				Start		End
Item	Encroach	ments		37.9228	37 °	37.922514°
пеш				-121.323785 °		-121.323504°
DWR ID	DWR_RD0	4_182				
		A ation/	Commo	oto		

Action/Comments

Ditch

Inspector Comments: Old irrigation ditch at the landward toe should be removed.

LM Start	2.01	Rating **	М	Issue No.	182 (cont)
LM End	2.04	Issue Type +	En	Location *	LS

Photo 1 of 2 : SP_2015_RD0524_107_182_20150309_00150.jpg



Looking northwest at an old irrigation ditch at landward toe.

Photo 2 of 2: SP_2015_RD0524_107_182_20150309_00151.jpg



Looking southwest at an old irrigation ditch at landward toe.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

2.01 Rating ** Issue No. 945 LM Start NΛ 2.01 Issue Type + En Location 3 LS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 37.923022° 37.923022° Item -121.323953 ° -121.323953 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:21872

DS_ID:24035 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

Rating ** Issue No. LM Start 2.05 Μ 946 2.05 Issue Type + Fn Location * LS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 37.922535° 37.922535 ° Item -121.323568 ° -121.323568 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:21883

DS_ID:24036 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe abandoned and should be done so properly.

Holes visible throughout exposed pipe.

FIELD_STRUCT_DESC: 5-inch wrapped steel irrigation pipe through the levee 6-feet below the crown. No pump or other appurtances found.

FS Date: 08/20/2013

LM Start	2.08	Rating **	M	Issue No.		183	
LM End	2.08	Issue Type +	Ma	Location *		WS	
Category	Earthen L	.evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Itom	Vegetatio	n		37.9220	09°	37.922009	0
Item				-121.3230	15 °	-121.323015	0
DWR ID	DWR_RD0	0524_01_s _ 201	4_183				

Action/Comments

Elderberries are blocking visibility and flood fight capability. Inspector Comments: Cactus on waterward slope.

No Photos

No Photos

No Photos

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.09	Rating **	М	Issue No.		947
LM End	2.09	Issue Type +	En	Location *		WS
Category	Supplemental			GPS La	titud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		37.9220	80 °	37.922080 °
пеш				-121.3231	18 °	-121.323118 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:21895

DS_ID:24038 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee at

an unknown depth. Vent, meter, butterfly valve, and pump at

pumphouse on WS slope. FS Date: 08/20/2013

LM Start	2.10	Rating **	М	Issue No.		948	
LM End	2.10	Issue Type +	En	Location *		WS	
Category	Supplemental GPS Latitude/Lo				e/Longitude		
Calegory				Start End			
Item	DWR UC	IP Field Study	,	37.92206	4 °	37.922064°	
пеш		=		-121.32308	4 °	-121.323084 °	
DWR ID							

Action/Comments

Inspector Comments: FS_ID:17944

DS_ID:20612 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Soil excavated from cover over pipe on WS next to

concrete riser. May indicate a leak or other problem.

FIELD_STRUCT_DESC: 20-inch steel pipe through the levee 15.0 feet below the crown. Pump in pump house on the waterward slope. Slide gate in 4-foot diameter concrete standpipe on WS slope with secondary concrete standpipe. PVC standpipe visible 350-feet off LS toe.

Originally included in the 1964 O&M manual.

FS Date: 08/20/2013

No Photos

No Photos

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.13	Rating **	A/W	Issue No.	6		
LM End	2.19	Issue Type +	Ма	Location *	WS		
Category	Earthen L	.evee	GPS Latitude/Longitude				
Calegory				Start	End		
Item	Vegetatio	n		37.92154	°	37.920959	0
пеш					3°	-121.321365	0
DWR ID	DWR_RD0	524_01_f _ 201	2_6				
	Action/Comments						

Remove the wild growth other than native grasses from the levee slopes.

No Photos

Rating ** A/W Issue No. LM Start 2.15 30 LM End 2.16 Issue Type + Ma Location * WS Earthen Levee GPS Latitude/Longitude Category Start End Erosion / Bank Caving 37.921383 ° 37.921300° Item -121.322043 ° -121.321902 ° DWR ID DWR_RD0524_01_s _ 2012_30 Action/Comments

Note and monitor erosion site.

No Photos

LM Start	2.19	Rating **	М	Issue No.	31			
LM End	2.25	Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Slope Sta	bility		37.9209	92 °	37.920505 °		
пеш				-121.3213	73 °	-121.320485 °		
DWR ID DWR_RD0524_01_s _ 2012_31								
Action/Comments								

Repair slope instability.



Looking south slope damage on waterward shoulder and slope.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.19	Rating **	U	Issue No.		Issue No.		Issue No.		146	
LM End	2.19	Issue Type +	Ма	Location *		WS					
Category Supplemental				GPS Latitude/Longitude							
Calegory				Start		End					
Item	DWR Ero	sion Survey		37.9209	92 °	37.920992	0				
item					70 °	-121.321370	0				
DWR ID DWR_RD0524_01_s _ 2015_146											

Action/Comments

Inspector Comments: 7/22/2014: The erosion has increased in size. 08/13/2013: No significant change observed. Slightly more vegetation was visible.

08/07/2012: The site was first reported in 2012 spring levee inspection report. [2014 Site ID:RD0524U01RM42.79]



View from downstream.

LM Start	2.25	Rating **	U	Issue No.		147		
LM End	2.25	Issue Type +	Ma	Location *		WS		
Catagony	Supplemental			GPS Latitude/Longitude				
Calegory			Start		End			
Item	DWR Ero	sion Survey		37.9206	50°	37.920650 °		
пеш				-121.3203	70 °	-121.320370 °		
DWR ID DWR_RD0524_01_s _ 2015_147								

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: An irrigation pipe is on site. [2014 Site ID:RD0524U01RM42.84]



View from upstream.

LM Start	2.27	Rating **	U	Issue No.		32
LM End	2.28	Issue Type +	Ма	Location *	LS	
Category	Earthen L	GPS Latitude/Longitude				
Calegory				Start End		
Item	Vegetatio	n		37.920372	°	37.920273
пеш			-121.320230	°	-121.320022	
DWR ID	DWR_RD0	524_01_s _ 201	2_32			
			_			

Action/Comments

Elderberries are blocking visibility and flood fight capability.



Looking south at dense veg on landside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.32	Rating **	М	Issue No.		34	
LM End	2.33	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Lat	ituc	le/Longitude	
Calegory		Start		End			
Item	Slope Sta	bility		37.91988	5 °	37.919703	0
пеш				-121.31971	3°	-121.319702	0
DWR ID	DWR_RD0524_01_s _ 2012_34						

Action/Comments

Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform.

Photo 1 of 1: SP_2015_RD0524_107_34_20150309_00048.jpg



Looking northeast at damage to the slope possibly caused by human activity.

LM Start	2.33	Rating **	М	Issue No.	107			
LM End	2.33	Issue Type +	Ма	Location *	LS			
Category	Earthen L	.evee		GPS La	titud	le/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.9197	42 °	37.919742	0	
пеш				-121.3196	23 °	-121.319623	0	
DWR ID	DWR_RD0524_01_s _ 2012_107							
	Action/Comments							

Trim trees to at least five feet above ground level.

Trim trees to at least five feet above ground level.

No Photos

LM Start	2.38	Rating **	A/W	Issue No.		184	
LM End	2.38	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Lat	itud	e/Longitude	
		Start		End			
Item	Trim / Thi	n Trees		37.91903	3°	37.919036	0
item		-121.31996	9°	-121.319969	0		
DWR ID	DWR_RD0	524_01_s _ 201	4_184				
		Action/	Comme	nts			

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

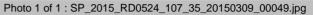
Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.41	Rating **	U	Issue No.		35	
LM End	2.45	Issue Type +	Ма	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory		Start		End			
Item	Vegetatio	n		37.9187	85 °	37.918515	0
item				-121.3204	17 °	-121.321110	0
DWR ID	DWR_RD0524_01_s _ 2012_35						

Action/Comments

Elderberries are blocking visibility and flood fight capability.





Looking southwest at dense vegetation on landward toe.

LM Start	2.44	Rating **	М	Issue No.		36		
LM End	2.47	Issue Type +	Ma	Location *		WS		
Catagony	Earthen L	GPS Latitude/Longitude						
Category				Start		End		
Item	Erosion /	Bank Caving		37.9186	28 °	37.918438		
item				-121.3208	17 °	-121.321452		
DWR ID	DWR_RD0524_01_s _ 2012_36							
	Action/Comments							

Action/Comments

Note and monitor erosion site.

Photo 1 of 1 : SP_2015_RD0524_107_	_36_20150309_00050.jpg
	THE COMPANY MAY



Looking east at erosion on waterside slope.

LM Start	2.45	Rating **	М	Issue No.	80	
LM End	2.45	Issue Type +	Ma	Location *	LS	
Category Earthen Levee				GPS Lat	titud	le/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		37.91848	0 °	37.918480 °
item				-121.32111	4 °	-121.321114 °
DWR ID	DWR_RD0524_01_s _ 2012_80					
		A - 1' 1	<u> </u>	-1-		

Action/Comments

Trim trees to at least five feet above ground level.

Photo 1 of 2: SP_2015_RD0524_107_80_20150309_00092.jpg



Looking southwest at dense vegetation and trees on landside slope. (Fall 2012)

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.45	Rating **	М	Issue No.	80 (cont)		
LM End	2.45	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Trim / Thi	n Trees		37.9184	80 °	37.918480	0
пеш			-121.3211	14 °	-121.321114	0	
DWR ID	DWR_RD0524_01_s _ 2012_80						
Action/Comments							

Trim trees to at least five feet above ground level.

Photo 2 of 2: SP_2015_RD0524_107_80_20150309_00093.jpg



Looking southwest at dense vegetation on landside toe.

LM Start	2.49	Rating **	U	Issue No.		37	
LM End	2.50	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory		Start		End			
Item	Vegetatio	Vegetation			45 °	37.918302	0
пеш				-121.3217	65 °	-121.321923	0
DWR ID	DWR_RD0524_01_s _ 2012_37						

Action/Comments

Elderberries are blocking visibility and flood fight capability.

Photo 1 of 4 : SP_2015_RD0524_107_37_20150309_00051.j	ipa
	,, 0

Looking south at elderberry on landside slope.

LM Start	2.49	Rating **	U	Issue No.	37 (cont)
LM End	2.50	Issue Type +	Ma	Location *	LS

Photo 2 of 4: SP_2015_RD0524_107_37_20150309_00052.jpg



Looking southwest at dense vegetation on landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.49	Rating **	U	Issue No.		37 (cont)	
LM End	2.50	Issue Type +	Ma	Location *		LS	
Catagoria Earthen Levee			GPS La	atitud	le/Longitude		
Category		Start		End			
Item	Vegetation			37.9183	45 °	37.918302	٥
item				-121.3217	65 °	-121.321923	0
DWR ID	DWR_RD0524_01_s _ 2012_37						
Action/Comments							

Elderberries are blocking visibility and flood fight capability.

LM Start	2.49	Rating **	U	Issue No.	37 (cont)
LM End	2.50	Issue Type +	Ma	Location *	LS



Looking north at elderberry and trees on landside slope.

Photo 4 of 4: SP_2015_RD0524_107_37_20150309_00054.jpg



Looking southwest at trees along levee landside toe.

LM Start	2.50	Rating **	U	Issue No.	38			
LM End	2.50	Issue Type +	Ма	Location *		WS		
Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Item	Vegetatio	/egetation			37.918287 °			
пеш		-121.321980 °		-121.321980				
DWR ID	DWR_RD0	524_01_s _ 201	2_38					
		Action/	Comme	nts				
Elderberries are blocking visibility and flood fight capability.								



Looking north at elderberry on waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.50	Rating **	U	Issue No.	38 (cont)		
LM End	2.50	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetatio	n		37.9182	87 °	37.918287	0
item				-121.3219	80 °	-121.321980	0
DWR ID	DWR_RD0524_01_s _ 2012_38						
Action/Comments							

Elderberries are blocking visibility and flood fight capability.



Looking south at elderberry on waterside slope.

LM Start	2.53	Rating **	М	Issue No.		82	
LM End	2.56	Issue Type +	Ma	Location *		LS	
Category	Earthen L	arthen Levee			atitud	le/Longitude	
Calegory				Start		End	
Item	Slope Stability			37.9180	60°	37.917667	0
item				-121.3223	84 °	-121.322713	0
DWR ID	DWR_RD0524_01_s _ 2012_82						

Action/Comments

Repair slope instability.



Looking southwest at damaged landward slope.

LM Start	2.53	Rating **	М	Issue No.		40		
LM End	2.53	Issue Type +	Ma	Location *		LS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory						End		
Item	Vegetatio	n		37.9180	47 °	37.918047	0	
пеш				-121.3224	15 °	-121.322415	0	
DWR ID	DWR_RD0	524_01_s _ 201	2_40					
		Action/	Comme	nts				

Elderberries are blocking visibility and flood fight capability.

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.56	Rating **	М	Issue No.		41		
LM End	2.56	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Vegetatio	n		37.91767	73 °	37.917673 °		
пеш				-121.32271	18 °	-121.322718 °		
DWR ID	DWR_RD0	524_01_s _ 201	2_41					
	Action/Comments							
Elderberrie	Elderberries are blocking visibility and flood fight capability.							

No Photos

LM Start	2.56	Rating **	U	Issue No.		42			
LM End	2.56	Issue Type +	En	Location *		WS			
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Encroach	ments		37.9176	73 °	37.917673 °			
item				-121.3227	18 °	-121.322718 °			
DWR ID DWR_RD0524_01_s _ 2012_42									
			_						

Action/Comments

Building

Inspector Comments: Animal pens on landward slope and toe.

LM Start	2.56	Rating **	U	Issue No.	42 (cont)
LM End	2.56	Issue Type +	En	Location *	WS

Photo 1 of 2: SP_2015_RD0524_107_42_20150309_00059.jpg



Looking west at animal pens on landside toe. (Fall 2012)

Photo 2 of 2: SP_2015_RD0524_107_42_20150309_00060.jpg



Looking at animal pens on landside slope and toe.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.57	Rating **	М	Issue No.		12	
LM End	2.57	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Category				Start		
Item	Encroach	ments		37.91753	8 °	37.917538	0
пеш			-121.32275	7 °	-121.322757	0	
DWR ID	DWR_RD0524_01_f _ 2012_12						

Action/Comments

Pole

Inspector Comments: Old fence poles on landside shoulder and slope should be removed.



Looking northwest at fence poles on landside shoulder.

LM Start	2.58	2.58 Rating ** M		Issue No.		917	
LM End	2.58	Issue Type + Ma		Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	Animal Control			75 °	37.917475	0
iteiii				-121.3228	08 °	-121.322808	0
DWR ID	DWR_RD0524_01_s _ 2012_917						

Action/Comments

Repair the levee slope damaged by livestock and prevent large animal access.

No Photos

LM Start	2.58	Rating **	М	Issue No.	7			
LM End	2.58	Issue Type +	En	Location *	WS			
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Encroach	ments		37.91743	1°	37.917431 °		
пеш				-121.32278	°	-121.322780 °		
DWR ID DWR_RD0524_01_f _ 2012_7								
	Action/Comments							

Ramp

Photo 1 of 1 : SP_2015_RD0524_107_7_20150309_00011.jpg



Looking southeast at unauthorized ramp on waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.59	Rating **	М	Issue No.		9		
LM End	2.59	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory	Category			Start		End		
Item	Vegetation			37.917228 °		37.917228	0	
item				-121.3227	30 °	-121.322730	0	
DWR ID DWR_RD0524_01_s _ 2012_9								
	Action/Comments							

Remove the wild growth other than native grasses from the levee slopes.

No Photos

Rating ** Issue No. LM Start 2.60 Μ 185 Location * LM End 2.64 Issue Type + Ma WS Earthen Levee GPS Latitude/Longitude Category End Start Trim / Thin Trees 37.917152° 37.916807 ° Item -121.322582 ° -121.322069 ° DWR ID DWR_RD0524_01_s _ 2014_185 Action/Comments

Thin trees to allow visibility of the ground and room to flood fight.

No Photos

Rating ** LM Start 2.61 Issue No. 949 Issue Type + Location * WS 2.61 En LM End Supplemental GPS Latitude/Longitude Category DWR UCIP Field Study 37.917365° 37.917365 Item -121.322779 ° -121.322779 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:21935 DS_ID:24040

EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Need to determine type of abandonment for pipe at

this location.

FIELD_STRUCT_DESC: *Abandoned* Pump pad on LS shoulder with 4'X9' brick distribution box on WS slope. No pipe visible. 4'X9' brick

distribution box on LS toe. FS Date: 08/20/2013

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.64	Rating **	М	Issue No.	43		
LM End	2.64	Issue Type +	Ма	Location *	LS		
Earthen Levee			GPS La	tituc	le/Longitude		
Calegory	Category			Start		End	
ltom	Vegetatio	n		37.91678	0°	37.916780	0
пеш	Item 5			-121.32209	5 °	-121.322095	0
DWR ID DWR_RD0524_01_s _ 2012_43							
Action/Comments							

Elderberries are blocking visibility and flood fight capability.

No Photos

Rating ** Issue No. 918 LM Start 2.65 LM End 2.66 Issue Type + Ma Location * LS Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 37.916718 ° 37.916502° Item -121.322020 ° -121.321980 ° DWR ID DWR_RD0524_01_s _ 2012_918 Action/Comments

Trim trees to at least five feet above ground level.

No Photos

LM Start	2.65	Rating **	U	Issue No.		920	
LM End	2.65	Issue Type +	En	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Encroachments			37.91669	98 °	37.916698 °	
item				-121.32200)7 °	-121.322007 °	
DWR ID DWR_RD0524_01_s _ 2012_920							
Action/Comments							
Dama							

Ramp



Looking southeast at unauthorized ramp on waterside slope.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A: W: Acceptable but Monitor & Maintain En: Enforcement

** Rating

A: Not Inspected/Rated M: Maintanance Deficiancy Ob: Design & System Obsolescence

C: Corrected Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.67	Rating **	A/W	Issue No.		44	
LM End	2.77	Issue Type +	Ma	Location *	LS		
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Trim / Thin Trees			37.91641	8 °	37.915142	0
пеш				-121.32196	3°	-121.323018	0
DWR ID DWR_RD0524_01_s _ 2012_44							

Action/Comments

Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim over hanging trees at least 12 feet above ground level.

Photo 1 of 1 : SP_2015_RD0524_	_107_44	_20150309_	_00061.jpg
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Looking north at dense trees overhanging levee crown.

LM Start	2.68	Rating **	М	Issue No.		21	
LM End	2.68	Issue Type +	Ma	Location *		WS	
Catagoria Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Erosion / Bank Caving			37.9162	24 °	37.916224 °	
пеш				-121.3221	15 °	-121.322115 °	
DWR ID DWR_RD0524_01_f _ 2013_21							

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large erosion around irrigation pipe.

Photo 1 of 2 : SP_2015_RD0524_107_21_20150309_00032.jpg
Car Carlon Carlos (Carlos Carlos Carl

Looking at erosion around irrigation pipe on waterward slope.

Photo 2 of 2: SP_2015_RD0524_107_21_20150309_00033.jpg

 LM Start
 2.68
 Rating **
 M
 Issue No.
 21 (cont)

 LM End
 2.68
 Issue Type +
 Ma
 Location *
 WS



Looking east at erosion around irrigation pipe on waterward slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable CR : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Acceptable N : Not Inspected/Rated Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.70	Rating **	A/W	Issue No.	264	
LM End	2.70	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Trim / Thi	n Trees		37.9159	68°	37.915968 °
пеш				-121.3222	75 °	-121.322275 °
DWR ID DWR_RD0524_01_s _ 2012_264						
Action/Comments						

Trim trees over roadway to at least 12 feet above ground level.

No Photos

Rating ** Issue No. LM Start 2.72 Μ 60 LM End 2.74 Issue Type + Ma Location * LS Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 37.915747 ° 37.915492 ° Item -121.322470 ° -121.322639 ° DWR ID DWR_RD0524_01_s _ 2012_60 Action/Comments

Trim trees to at least five feet above ground level.

No Photos

Rating ** A/W Issue No. LM Start Location * 2.74 Issue Type + Ма LS LM End Earthen Levee GPS Latitude/Longitude Category Encroachments 37.915503° 37.915503 ° Item -121.322745 ° -121.322745 ° DWR ID DWR_RD0524_01_s _ 2012_70

Action/Comments

Tree or limb

Inspector Comments: Broken tree branch.

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.75	Rating **	М	Issue No.		950
LM End	2.75	Issue Type +	En	Location *	LS	
Catagony	ental	GPS Latitude/Longitude				
Calegory	Category					End
Item	DWR UC	IP Field Study		37.915698	°	37.915698 °
пеш				-121.32250°	°	-121.322501 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:18085

DS_ID:20616 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for crossing. Unknoww use.

Pipe should be removed.

FIELD_STRUCT_DESC: 3-inch galvanized iron pipe through the levee

0.3 feet below the crown. Valve on the landward shoulder.

FS Date: 08/20/2013

LM Start	2.78	Rating **	A/W	Issue No.	921			
LM End	2.78	Issue Type +	En	Location *	WS			
Category	Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End		
Item	Encroachments			37.91512	25 °	37.915125 °		
пеш				-121.3232	27 °	-121.323227 °		
DWR ID	DWR_RD0	524_01_s _ 201	12_921					
		Action/	Comme	nts				
Prunings								

No Photos

No Photos

-						
LM Start	2.80	Rating **	U	Issue No.	48	
LM End	2.80	Issue Type +	Ma	Location *	LS	
Category	Earthen L	.evee		GPS La	titud	le/Longitude
Category				Start		End
ltom	Vegetatio	n		37.9150	22 °	37.915022 °
Item				-121.3234	13 °	-121.323443 °
DWR ID	DWR_RD0524_01_s _ 2012_48					

Action/Comments

Elderberries are blocking visibility and flood fight capability.

Photo 1 of 2: SP_2015_RD0524_107_48_20150309_00069.jpg



Looking south at dense elderberry on landside slope.(Spring 2012)

Location + Issue Type Ma : Maintenance Deficiancy LS : Land Side N/A : Not Applicable A : Acceptable
M : Minimally Acceptable
U : Unacceptable N: Not Inspected/Rated WS: Water Side C : Corrected Ob: Design & System Obsolescence A/W : Acceptable but Monitor & Maintain CR : Crown En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.80 Rating ** U		Issue No.	48 (cont)			
LM End	2.80	Issue Type +	Ма	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Calegory				End			
Item	Vegetation			37.91502	22 °	37.915022	0
пеш				-121.32344	13 °	-121.323443	0
DWR ID	DWR_RD0524_01_s _ 2012_48						

Action/Comments

Elderberries are blocking visibility and flood fight capability.



Looking south at elderberry on landside slope.(Spring 2011)

LM Start	2.80	Rating **	U	Issue No.		91		
LM End	2.80	Issue Type +	Ма	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Calegory				Start End				
Item	Trim / Thin Trees				63 °	37.915063	0	
пеш		-121.3235	85 °	-121.323585	0			
DWR ID	DWR_RD0524_01_s _ 2012_91							

Action/Comments

Thin trees to allow visibility of the ground and room to flood fight.

Photo 1 of 1 : SP_2015_RD0524_107_91_20150309_00096.jpg



Looking southwest at dense vegetation on landside slope.

LM Start	2.86	Rating **	U	Issue No.	49			
LM End	2.86	Issue Type +	Ma	Location *	LS			
Catagony	Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End		
Itom	Vegetatio	Vegetation			, °	37.914427	0	
Item				-121.324198	3°	-121.324198	0	
DWR ID	DWR_RD0	524_01_s _ 201	2_49					
			_					

Action/Comments

Elderberries are blocking visibility and flood fight capability.



Looking northwest at elderberry on landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.90	Rating **	U	Issue No.	50			
LM End	2.92	Issue Type +	Ma	Location *		LS		
Catagony	Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Encroachments			37.9137	67 °	37.913503 °			
пеш				-121.324427 °		-121.324488 °		
DWR ID	DWR_RD0	524_01_s _ 201	2_50			·		
Action/Comments								
Prunings								



Looking southwest at prunings on landside slope.

LM Start	2.93	Rating **	М	Issue No.		51		
LM End	2.93	Issue Type +	Ма	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Calegory				Start End				
Item	Trim / Thin Trees			37.9134	15 °	37.913415	0	
пеш				-121.324503 ° -121.32450				
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_51							

Action/Comments

Trim trees to at least five feet above ground level.

Photo 1 of 1 : SP_2015_RD0524_107_51_20150424_00220.jpg



Looking south at dense trees on landward slope.

LM Start	2.96	Rating **	U	Issue No.		193
LM End	2.96	Issue Type +	Ma	Location *		WS
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR Ero	sion Survey		37.91301	0 °	37.913010
пеш				-121.32449	0 °	-121.324490 '
DWR ID	DWR_RD0	524_01_s _ 201	5_193			

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The site was first reported in 2012 spring levee inspection report. [2014 Site ID:RD0524U01RM43.52]



Front view of the erosion.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	2.98	Rating **	М	Issue No.		951	
LM End	2.98	Issue Type +	En	Location *		WS	
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study	,	37.91310	01 °	37.913101	0
пеш				-121.32450	00 °	-121.324500	٥
DWR ID							

No Photos

Action/Comments

Inspector Comments: FS_ID:18089

DS_ID:20617 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Review crossing with inspector as records indicate that this should be an 8-inch pipe through levee 3.0 feet below crown, pump on landward side. Siphon breaker on the waterward slope.

Originally included in the 1964 O&M manual.

FIELD_STRUCT_DESC: 16-inch wrapped steel storm discharge pipe through the levee 1.5-feet below the crown. Pump on steel pile

structure at drainage canal off LS toe.

FS Date: 08/20/2013

LM Start	3.02	Rating **	M	Issue No.		924
LM End	3.02	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee	GPS Latitude/Longitude			e/Longitude
Category				Start End		End
Item	Animal Co	ontrol		37.91216	3°	37.912163 °
пеш				-121.32470)2 °	-121.324702 °
DWR ID	DWR_RD0	524_01_s _ 201	2_924			

No Photos

Action/Comments

Repair the levee slope damaged by livestock and prevent large animal access.

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.07	Rating **	М	Issue No.		925
LM End	3.14	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Animal Co	ontrol		37.9113	82 °	37.910558 °
item				-121.3249	28 °	-121.325432 °
DWR ID DWR_RD0524_01_s _ 2012_925						
		A -4: /	C	-1-		

Action/Comments

Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on levee slopes.



Looking at typical rodent holes on landward slope along this reach.

LM Start	3.27	Rating **	A/W	Issue No.		186		
LM End	3.27	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.9085	51 °	37.908551 °		
item				-121.3253	81 °	-121.325381 °		
DWR ID	DWR_RD0	524_01_s _ 201	4_186			·		

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

LM Start	3.30	Rating **	A/W	Issue No.		926	
LM End	3.32	Issue Type +	Ma	Location *		LS	
Category	Earthen L	.evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.9081	58 °	37.907872	0
пеш				-121.3254	18 °	-121.325443	0
DWR ID	DWR_RD0	0524_01_s _ 201	2_926				
		A ation /	Camma	n+n			

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.31	Rating **	U	Issue No.		5		
LM End	3.31	Issue Type +	Ма	Location *	WS			
Category	Suppleme	upplemental			GPS Latitude/Longitude			
Calegory				Start	t End			
Item	DWR Ero	sion Survey		37.90809	0 °	37.908090		
пеш				-121.32509	0 °	-121.325090		
DWR ID DWR_RD0524_01_s _ 2015_5								
		Action/	Comme	nts				

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2014 Site ID:RD0524U01RM43.86]



View from upstream of the erosion.

LM Start	3.34	Rating **	A/W	Issue No.		52	
LM End	3.37	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Trim / Thin Trees			37.9076	45 °	37.907157	0
iteiii				-121.3254	42 °	-121.325408	0
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_52						

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

LM Start	3.35	Rating **	U	Issue No.		92		
LM End	3.37	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory			Start			End		
Item	Vegetation			37.9074	07 °	37.907177	0	
пеш				-121.3254	35 °	-121.325392	0	
DWR ID	DWR_RD0	524_01_s _ 201	2_92					
		Action/	Comme	nts				
Landscapi	ng							



Looking southwest at dense landscaping on landside slope.

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Not Inspected/Rated
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

** Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.36	Rating **	М	Issue No.		53	
LM End	3.42	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Itom	Animal Co	ontrol		37.90728	3°	37.906503	0
пеш	Item			-121.32543	2 °	-121.325002	0
DWR ID DWR_RD0524_01_s _ 2012_53							
	Action/Comments						

Exterminate rodents and backfill and compact or grout burrows.

No Photos

Rating ** U Issue No. LM Start 3.38 952 LM End 3.38 Issue Type + En Location * WS Supplemental GPS Latitude/Longitude Category Start End DWR UCIP Field Study 37.907504° 37.907504° Item -121.325420 ° -121.325420 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:42932

DS ID:20618 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently

repaired leak at gate valve.

FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee 7-feet below the crown, pump house on the waterward slope. Gate valve on the LS slope and a 4'X4' brick distribution box at the LS toe. Originally included in the 1964 O&M manual.

FS Date: 08/20/2013

No Photos

A : Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.40	Rating **	U	Issue No.		54	
LM End	3.45	Issue Type +	Ma	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.9067	47 °	37.906192	0
iteiii				-121.3252	48 °	-121.324543	0
DWR ID DWR_RD0524_01_s _ 2012_54							

Action/Comments

Trim and thin trees to allow visibility of the ground and room to flood fight.



Looking northwest at dense vegetation on landside slope.

LM Start	3.42	Rating **	М	Issue No.		56	
LM End	3.42	Issue Type +	Ma	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Encroachments				40 °	37.906540 °	
item				-121.325015 °		-121.325015 °	
DWR ID DWR_RD0524_01_s _ 2012_56							
		A - 1' /	<u> </u>	- 1 -			

Action/Comments

Materia

Inspector Comments: Broken concrete pipes



Looking southwest at concrete pipes on landside toe.

LM Start	3.45	Rating **	U	Issue No.	sue No.			
LM End	3.45	Issue Type +	Ма	Location *	LS			
Category	evee	GPS Latitude/Longitude						
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.906265	٥	37.906265	0	
item			-121.324643	٥	-121.324643	0		
DWR ID	DWR_RD0	524_01_s _ 201	2_93					

Action/Comments

Trim and thin trees to allow visibility of the ground and room to flood fight.



Looking northwest at low hanging tree branches on landside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.48	Rating **	М	Issue No.	177		
LM End	3.48	Issue Type +	Ма	Location *	LS		
Category	evee		GPS Latitude/Longitude				
Calegory				Start		End	
Itom	Encroach	ments		37.905994	1 °	37.905994	0
пеш	Item				1 °	-121.324194	0
DWR ID DWR_RD0524_01_f _ 2014_177							
	Action/Comments						

Tree or limb

Inspector Comments: Dead tree on landward toe.

No Photos

LM Start	3.51	Rating **	U	Issue No.		57	
LM End	3.61	Issue Type +	Ма	Location *		LS	
Catagonia Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Trim / Thin Trees			37.9056	38 °	37.904430 °	
пеш				-121.3238	92 °	-121.324570 °	
DWR ID DWR_RD0524_01_s _ 2012_57							
		A .: /	_				

Action/Comments

Trim and thin trees to allow visibility of the ground and room to flood fight.

Photo 1 of 1: SP_2015_RD0524_107_57_20150309_00076.jpg



Looking south at dense trees on landward slope.

LM Start	3.51	Rating **	М	Issue No.		265	
LM End	3.51	Issue Type +	En	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Calegory			Start		End	
Item	Encroachments			37.90555	2 °	37.905552 °	
пеш				-121.32384	۲°	-121.323847 °	
DWR ID	DWR_RD0	524_01_s _ 201	2_265				

Action/Comments

Ramp

Inspector Comments: Unauthorized ramp on landside slope.



Looking southeast at unauthorized ramp on landside slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement
CIX . CIOWII	O . Onacceptable	AVV . Acceptable but Morittor & Maintain	EII. EIIIOICEIIIEIII

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.57	Rating **	М	Issue No.		55	
LM End	3.57	Issue Type +	Ма	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	DWR Ero	DWR Erosion Survey		37.90463	°	37.904630	
item			-121.32361	°	-121.323610		
DWR ID	DWR_RD0	524_01_s _ 201	5_55			`	

Action/Comments

Inspector Comments: 6/19/2014: The previous erosion was repaired. New erosion was found below the repaired levee slope.

08/13/2013: No significant change observed.

08/07/2012: The levee toe has been cut off along a 150 ft. long river stretch. The erosion is located just upstream of a river bend. [2014 Site ID:RD0524U01RM44.13]

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View of the repaired site.

LM Start	3.61	Rating **	М	Issue No.		124		
LM End	3.61	Issue Type +	En	Location *		LS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory	alegory			Start		End		
Item	Vegetation			37.9043	75 °	37.904375	o	
пеш				-121.3246	15 °	-121.324615	0	
DWR ID	DWR_RD0	524_01_f _ 201	2_124					

Action/Comments

Landscaping

Inspector Comments: Landowner planted cactus on landside toe.



Looking west at cactus on landside toe.

LM Start	3.64	Rating **	М	Issue No.		58	
LM End	3.64	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Sta	Slope Stability		37.9041	13 °	37.904113	0
nem		-121.3250	80 °	-121.325080	0		
DWR ID	DWR_RD0	0524_01_s _ 201	2_58				

Action/Comments

Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comments: Landowner cut steps into waterside slope.



Looking southeast steps cut into waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

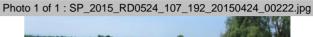
Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.67	Rating **	U	Issue No.		192	
LM End	3.67	Issue Type +	Ма	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Encroachments			37.9037	82 °	37.903782	
пеш	item			-121.3253	63 °	-121.325363	
DWR ID	DWR ID DWR_RD0524_01_s _ 2015_192						
Action/Comments							

Prunings

Inspector Comments: Large pruning piles at landward toe.





Looking east at pruning pile at landward toe.

LM Start	3.69	Rating **	М	Issue No.		194	
LM End	3.78	Issue Type +	En	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	itegory		Start		End		
Item	Encroachments			37.9035	53 °	37.902505	0
item			-121.3254	68 °	-121.326425	0	
DWR ID	DWR_RD0524_01_s _ 2015_194						

Action/Comments

Inspector Comments: Irrigation ditch at landward toe.

Photo 1 of 2 : SP_2015_RD0524_107_194_2	20150424_00223.jpg
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	一种证明的



Looking south at irriagtion ditch at landward toe.

Photo 2 of 2: SP_2015_RD0524_107_194_20150424_00224.jpg



Looking east at south end of irrigation ditch at landward toe.

LM Start	3.69	Rating **	М	Issue No.	194 (cont)
LM End	3.78	Issue Type +	En	Location *	LS

Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

A : Acceptable M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.77	Rating **	М	Issue No.	sue No. 927			
LM End	3.77	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory		Start		End				
Item	Trim / Thin Trees			37.9026	45 °	37.902645	0	
item			-121.3263	40 °	-121.326340	0		
DWR ID	DWR_RD0524_01_s _ 2012_927							
Action/Comments								

Trim trees to at least five feet above ground level.

Photo 1 of 1 : SP_2015_RD0524_107_927_20150424_00225.jpg



Looking east at untrimmed tree on landward slope.

LM Start	3.78	Rating **	М	Issue No.		59	
LM End	3.78	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Trim / Thin Trees			37.9024	17°	37.902417 °	
item				-121.3264	82 °	-121.326482 °	
DWR ID	DWR_RD0524_01_s _ 2012_59						
		A .: /	_	,			

Action/Comments

Trim trees to at least five feet above ground level.

Photo 1 of 1: SP_2015_RD0524_107_59_20150424_00226.jpg

Looking south at untrimmed trees on landward slope.

LM Start	3.79	Rating **	М	Issue No.	266		
LM End	3.79	Issue Type +	En	Location *		CR	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	Encroachments			65 °	37.902365 °	
пеш				-121.3264	53 °	-121.326453 °	
DWR ID	DWR_RD0524_01_s _ 2012_266					·	
Action/Comments							

Equipment

Inspector Comments: Landowner installed water filter piping system without permit.

Photo 1 of 3 : SP_2015_RD0524_107_266_20150309_00160.jpg



Looking south at unauthorized irrigation pipe across levee and water filtration system at landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.79	Rating **	М	Issue No. 266 (cont		266 (cont)	
LM End	3.79	Issue Type +	En	Location *	CR		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroachments			37.90236	65 °	37.902365	
item				-121.3264	53 °	-121.326453	
DWR ID	DWR_RD0524_01_s _ 2012_266						
Action/Comments							

Equipment

Inspector Comments: Landowner installed water filter piping system without permit.

LM Start	3.79	Rating **	М	Issue No.	266 (cont)
LM End	3.79	Issue Type +	En	Location *	CR



Looking south unauthorized PVC irrigation pipe across the levee crown.

Photo 3 of 3: SP_2015_RD0524_107_266_20150309_00162.jpg



Looking west at water filtration system on landside toe.

LM Start	3.80	Rating **	М	Issue No.	928		_
LM End	3.81	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Trim / Thin Trees			37.902155 °		37.902002	0
пеш				-121.3265	23 °	-121.326550	0
DWR ID	DWR_RD0	0524_01_s _ 201	2_928				
Action/Comments							
Trim trees to at least five feet above ground level.							

No Photos

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.82	Rating **	М	Issue No.		953	
LM End	3.82	Issue Type +	En	Location *		LS	
Category				GPS Latitude/Longitude			
Calegory		Start		End			
Item	DWR UC	IP Field Study	,	37.90237	1°	37.902371	0
пеш				-121.32644	o°	-121.326440	٥
DWR ID							

Action/Comments

Inspector Comments: FS_ID:22725

DS_ID:24044 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 0feet below the crown. Pipe integrated into steel cattelguard style crossing. Slant pump and butterfly valve at concrete foundation on WS

slope. Filter plant, vents, and butterfly valves on LS toe.

FS Date: 08/20/2013

LM Start	3.82	Rating **	M	Issue No.		954	
LM End	3.82	Issue Type +	En	Location *		LS	
Category	GPS Latitude/Longitude						
Calegory	Calegory				Start En		
Item	DWR UCIP Field Study				1 °	37.902361	0
пеш				-121.32644	3°	-121.326443	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18307

DS ID:20620 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so properly. Evidence of severe internal corrosion in concrete distribution

box at LS toe

FIELD_STRUCT_DESC: 12-inch concrete encased pipe through the levee 10.5 feet below the crown, pump and gate valve in pump house on the waterward slope. 6'X6' Concrete distribution box on the landward toe. Two concrete cutoff walls. Service pole at the landward toe.

Originally included in the 1964 O&M manual.

FS Date: 08/20/2013

No Photos

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.85 Rating ** M			Issue No.		187
LM End	3.85	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory		Start		End		
Item	Encroach	ments		37.9014	47 °	37.901447 °
item			-121.3265	00 °	-121.326500 °	
DWR ID DWR_RD0524_01_s _ 2014_187						
Action/Comments						

Tree or limb

Inspector Comments: Tree limb on waterward shoulder.



Looking northeast at tree limb on waterward slope.

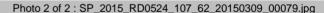
LM Start	3.86	Rating **	М	Issue No.		62	
LM End	3.97	Issue Type +	En	Location *		LS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
			Start		End		
Item	Encroach	ments		37.9013	75 °	37.899745	0
item				-121.3265	07 °	-121.326630	0
DWR ID DWR_RD0524_01_s _ 2012_62							
		Action/	Comme	nte			

Equipment



Looking south at northend of equipment stored at landward slope and toe.

LM Start	3.86	Rating **	М	Issue No.	62 (cont)
LM End	3.97	Issue Type +	Fn	Location *	LS





Looking upstream at equipment on landside shoulder

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.87	U	Issue No.		95		
LM End	3.90	Issue Type +	En	Location *	n* LS		
Category	Earthen Levee				tituc	le/Longitude	
Calegory			Start		End		
Item	Encroach	ments		37.90114	7 °	37.900735 °	
пеш						-121.326425 °	
DWR ID DWR_RD0524_01_f _ 2013_95							
Action/Comments							

Equipment

Inspector Comments: Landowner is storing equipment on landward shoulder and landward toe.

LM Start	3.87	Rating **	U	Issue No.	95 (cont)
LM End	3.90	Issue Type +	En	Location *	LS



Looking south at farm equipment stored on landward shoulder and toe.

Photo 2 of 3: SP_2015_RD0524_107_95_20150309_00101.jpg



Looking north at farm equipment stored on landward shoulder.

LM Start	3.87	Rating **	U	Issue No.	95 (cont)
LM End	3.90	Issue Type +	En	Location *	LS



Looking west at farm equipment stored at landward toe.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected A/W: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	3.88	Rating **	М	Issue No.		94		
LM End	3.88	Issue Type +	Ма	Location *	WS			
Category	Catagoni Earthen Levee			GPS Latitude/Longitude				
Category			Start		End			
Item	Vegetation		37.90095	2°	37.900952	0		
пеш					3°	-121.326443	0	
DWR ID DWR_RD0524_01_s _ 2012_94								

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Remove cactus

Photo 1 of 1 : SP_2015_RD0524_107_94_20150309_00099.jpg



Looking southeast at cactus on waterside slope.

LM Start	3.89	Rating **	М	Issue No.		83						
LM End	3.89	89 Issue Type + Ma Location		Location *		Location *		Location *		Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude								
Category				Start		End						
Item	Trim / Thi	n Trees		37.9008	54 °	37.900854						
item		-121.3264	38 °	-121.326438 °								
DWR ID	DWR_RD0	524_01_s _ 201	2_83									

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

LM Start	3.93	Rating **	М	Issue No.		955	
LM End	3.93	Issue Type +	En	Location *		LS	
Category	Supplemental			GPS La	titud	le/Longitude	
Category				Start		End	
Item	DWR UC	IP Field Study	,	37.9007	78 °	37.900778	0
пеш				-121.32642	20 °	-121.326420	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:41464

DS_ID:20621 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears to be abandoned as signage has been

removed.

FIELD_STRUCT_DESC: 2.5-inch submarine telephone conduit through levee and across channel 2.0 feet below crown. Sign posts remain on

both sides of river on the waterward slope.

FS Date: 08/20/2013

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

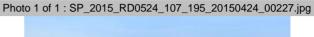
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.02	Rating **	U	Issue No.		195			
LM End	4.02	Issue Type +	Ма	Location *	LS				
Category	Catagoni Earthen Levee								le/Longitude
Category		Start		End					
Itom	Encroachments			37.89909	3°	37.899093 °			
Item				-121.32693	3°	-121.326933 °			
DWR ID DWR_RD0524_01_s _ 2015_195									
A stice /Commonsta									

Action/Comments

Prunings

Inspector Comments: Pruning pile blocking view of landward slope.





Looking east at pruning pile at landward toe.

LM Start	4.02	Rating **	U	Issue No.		101
LM End	4.02	Issue Type +	En	Location *	LS	
Earthen Levee GPS Latitude/Long					le/Longitude	
Category				Start		End
ltem Encroachments			37.8990	27 °	37.899027 °	
пеш				-121.326982 °		-121.326982 °
DWR ID DWR_RD0524_01_s _ 2012_101						

Action/Comments

Ramp

Inspector Comments: Unauthorized ramp. Ramp does not meet Title 23 standard.

Photo 1 of 1 : SP_2015_RD0524_107_101_20150309_00104.jpg

Looking west at unathorized ramp on landside slope.

LM Start	4.03	Rating **	М	Issue No.		61
LM End	4.03	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Trim / Thi	n Trees		37.8989	25 °	37.898925 °
пеш				-121.3270	15 °	-121.327015 °
DWR ID DWR_RD0524_01_s _ 2012_61						
Action/Comments						

Trim trees to at least five feet above ground level.



Looking east at untrimmed tree at landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.04	Rating **	A/W	Issue No.		64	
LM End	4.09	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Co	ontrol		37.89883	2 °	37.898090	0
пеш				-121.32709	2 °	-121.327457	0
DWR ID	DWR_RD0524_01_s _ 2012_64						

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.



Looking at typical view of grouted rodent holes on landward slope.

LM Start	4.07	Rating **	М	Issue No.		956	
LM End	4.07	Issue Type +	En	Location *		LS	
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	P Field Study		37.8988	53 °	37.898853 °	
пеш			-121.327049 °		-121.327049 °		
DWR ID						·	

Action/Comments

Inspector Comments: FS_ID:18314

DS_ID:20623 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

properly.

FIELD_STRUCT_DESC: 8-inch concrete encased pipe through the levee 9.5-feet below crown, pump and gate valve in pump house on the waterward slope. Slide gate in 42-inch corrugated metal pipe riser on the waterward slope. Brick standpipe at the toe of the landward slope. 1.5-inch galvanized iron electrical conduit through the levee 3-feet below the crown at the same location. Originally included in the 1964 O&M manual.

FS Date: 08/20/2013

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.10	Rating **	М	Issue No.	108			
LM End	4.10	Issue Type +	Ma	Location *	LS			
Catagony	Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End				
Item	Slope Sta	bility		37.898035 °		37.898035	0	
item		-121.327447 °		-121.327447	0			
DWR ID	DWR_RD0524_01_s _ 2012_108							
	Action/Comments							

Repair slope instability.



Looking southwest at caving slope on landside of levee.

LM Start	4.16	Rating **	С	Issue No.		109	
LM End	4.16	Issue Type +	Ma	Location *		WS	
Category Systems			GPS Latitude/Longitude				
Systems		Start		End			
Item	Metal Pipes			37.8971	13 °	37.897113 °	
пеш			-121.327895 °		-121.327895		
DWR ID	DWR_RD0	524_01_s _ 201	2_109				

Action/Comments

Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be repaired to stop further damage to the levee. Landowner repaired steel pipe, but pvc piping is still causing damage to waterward slope.

No Photos

LM Start	4.16	Rating **	М	Issue No.		110		
LM End	4.16	Issue Type +	En	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Encroach	ments		37.8971	03 °	37.897103	0	
пеш		-121.327895 °		-121.327895 °				
DWR ID	DWR_RD0	524_01_s _ 201	2_110					

Action/Comments

Ramp

Inspector Comments: Two unauthorized ramps on landward slope.

Photo 1 of 1: SP_2015_RD0524_107_110_20150309_00115.jpg



Looking southwest at an unauthorized ramp on landside slope.

Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS : Land Side N/A : Not Applicable A : Acceptable N: Not Inspected/Rated WS: Water Side : Minimally Acceptable C : Corrected A/W: Acceptable but Monitor & Maintain CR : Crown U : Unacceptable En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.20	Rating **	М	Issue No.		957	
LM End	4.20	Issue Type +	En	Location *		LS	
Category	ental		GPS Latitude/Longitude				
Calegory		Start		End			
Item	DWR UC	WR UCIP Field Study			18 °	37.897118	0
Item				-121.327910 °		-121.327910	0
DWR ID							

No Photos

Action/Comments

Inspector Comments: FS_ID:18318

DS_ID:20625 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Small leak on WS slope causing minor erosion on

WS slope.

FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 4.5 feet below the crown, pumphouse and gate valve on the waterward slope. 36-inch concrete standpipe, power pole, and meter on LS toe.

Originally included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	4.21	Rating **	M	Issue No.		958	
LM End	4.21	Issue Type +	En	Location *		LS	
Category	Suppleme		GPS Latitude/Longitude				
Category				Start		End	
DWR UCIP Field Study			37.89707	74 °	37.897074 °		
пеш				-121.327926 °		-121.327926 °	
DWR ID							

No Photos

Action/Comments

Inspector Comments: FS_ID:22069

DS_ID:24049 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: 2.25-inch PVC domestic water service through the levee 5-feet below the crown. Pump and tank on WS slope

with a vent on the LS slope.

FS Date: 08/23/2013

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.36	Rating **	A/W	Issue No.	65		
LM End	4.51	Issue Type +	Ma	Location *		LS	
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item	Animal Co	ontrol		37.89458	37 °	37.892493 °	
пеш				-121.32925	53 °	-121.328267 °	
DWR ID	DWR_RD0524_01_s _ 2012_65						
		Action/	Comme	nts			

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

LM Start	4.38	Rating **	М	Issue No.		111	
LM End	4.38	Issue Type +	En	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory		Start		End			
Item	Encroach	ments		37.8942	58 °	37.894258	0
item				-121.329247 °		-121.329247	0
DWR ID	DWR RD0524 01 s 2012 111						

Action/Comments

Tree or limb

Inspector Comments: Dead tree at landside toe should be removed from levee toe.

Photo 1 of 1: SP_2015_RD0524_107_111_20150309_00116.jpg



Looking west at dead tree at landside toe.

LM Start	4.40	Rating **	М	Issue No.		112	
LM End	4.53	Issue Type +	Ma	Location *		LS	
Category	Catagori Earthen Levee			GPS Latitude/Longitude			
Calegory	Category				Start		
Item	Trim / Thi	n Trees		37.89392	8 °	37.892230	0
пеш	tem			-121.32920	3°	-121.328187	0
DWR ID	DWR_RD0	524_01_s _ 201	2_112				

Action/Comments

Trim trees to at least five feet above ground level.





Looking southeast at untrimmed tree at landward toe.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.41	Rating **	М	Issue No.		959	
LM End	4.41	Issue Type +	En	Location *		LS	
Category Supplemental				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.89445	3°	37.894453 °	
пеш				-121.32923	2°	-121.329232 °	
DWR ID						·	

Action/Comments

Inspector Comments: FS_ID:18320

DS_ID:20626 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Small leak in pipe on LS slope and pipe slightly

crushed on LS toe.

FIELD_STRUCT_DESC: 9-inch steel stormdrain pipe through the levee 3.0 feet below the crown, pump in drain ditch on the landward side. Siphon breaker on the waterward slope. Originally included in the 1964

O&M manual. FS Date: 08/23/2013

LM Start	4.52	Rating **	М	Issue No.		102	
LM End	4.52	Issue Type +	En	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Encroach	ments		37.89236	86°	37.892368 °	
item				-121.32820	00°	-121.328200 °	
DWR ID DWR_RD0524_01_s _ 2012_102							
			_				

Action/Comments

Prunings

No Photos

Photo 1 of 1: SP_2015_RD0524_107_102_20150309_00105.jpg



Looking southeast at dead tree on waterside slope.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.53	Rating **	U	Issue No.		79	
LM End	4.53	Issue Type +	Ма	Location *		WS	
Supplemental Supplemental			GPS Latitude/Longitude				
Calegory	Category				Start		
Item	DWR Ero	sion Survey		37.89223	°	37.892230	0
nem		-121.32793	°	-121.327930	0		
DWR ID	DWR_RD0	524_01_s _ 201	5_79				

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2014 Site ID:RD0524U01RM45.07]



Downstream view of the erosion site.

LM Start	4.60	Rating **	М	Issue No.		66	
LM End	4.60	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Itom	Encroach	ments		37.8913	65 °	37.891365	0
Item				-121.3286	33 °	-121.328633	0
DWR ID DWR_RD0524_01_s _ 2012_66						_	
Action/Comments							

Garbage

Photo 1 of 1: SP_2015_RD0524_107_66_20150309_00081.jpg



Garbage at landward toe next to ramp at LM 4.64

LM Start	4.61	Rating **	М	Issue No.		63	
LM End	4.61	Issue Type +	Ма	Location *	LS		
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.891285	٥	37.891285	0
пеш				-121.328728	٥	-121.328728	0
DWR ID DWR_RD0524_01_s _ 2012_63							
		A -4: /	C	-1-			

Action/Comments

Trim trees to at least five feet above ground level.



Looking south at dense trees on landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.63	Rating **	A/W	Issue No.		113	
LM End	4.63	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Trim / Thin Trees			37.890973 °		37.890973	
item				-121.3289	70 °	-121.328970	
DWR ID DWR_RD0524_01_s _ 2012_113							
Action/Comments							

Trim trees to at least five feet above ground level.



Looking north at dense trees on landside slope.

LM Start	4.70	Rating **	A/W	Issue No.		67
LM End	4.70	Issue Type +	Ma	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Category				Start		End
Item	Trim / Thi	n Trees		37.8901	08 °	37.890108 °
item				-121.3295	23 °	-121.329523 °
DWR ID	DWR_RD0	524_01_s _ 201	2_67			

Action/Comments

Trim trees to at least five feet above ground level. Inspector Comments: Fig tree at landside toe.

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.73	Rating **	М	Issue No.	sue No. 960		
LM End	4.73	Issue Type +	En	Location *		LS	
Category				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	37.8903	13 °	37.890313	0		
пеш				-121.3294	05 °	-121.329405	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18323

DS_ID:20646 EP_NO: 0

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Good candidate for video inspection as brick and

mortar deteriorating inside tunnel.

FIELD_STRUCT_DESC: 22-inch concrete pipe through the levee 12.0 feet below the crown. Pump on pier at WS toe. 16-inch pipe from pump discharges into a concrete riser inside the pumphouse on the WS shoulder. Brick and mortar channel on LS toe. Originally included in

the 1964 O&M manual. FS Date: 08/23/2013

Photo 1 of 1 : SP	_2015_RD0524	_107_84_201504	24_00231.jpg

No Photos



Looking northeast at untrimmed trees on landward slope.

LM Start	4.90	Rating **	U	Issue No.	84	
LM End	4.93	Issue Type +	Ma	Location *	LS	
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Trim / Thi	n Trees		37.88765	55 °	37.887277 °
пеш				-121.33120)2 °	-121.331609 °
DWR ID	DWR_RD0	524_01_s _ 201	2_84		Ò	·

Action/Comments

Trim trees to at least five feet above ground level.

Location LS : Land Side N/A : Not Applicable WS: Water Side

Thursday, June 11, 2015 13:41

CR : Crown

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	4.94	Rating **	М	Issue No.		961	
LM End	4.94	Issue Type +	En	Location *	* LS		
Supplemental				GPS Lat	itud	e/Longitude	
Calegory	Category					End	
Item	DWR UC	IP Field Study		37.88769	4 °	37.887694°	
пеш				-121.33101	9 °	-121.331019 °	
DWR ID							

Action/Comments

Inspector Comments: FS_ID:22728

DS_ID:20628 EP_NO: 3817

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

oroperly.

FIELD_STRUCT_DESC: 6-inch steel pipe through the levee 3.0 feet below the crown, pump 120-feet off the LS toe. Siphon breaker in 24-inch CMP on the waterward shoulder (Permit No. 3817) Originally

included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	4.96	Rating **	М	Issue No.		114
LM End	4.98	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	titud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		37.88690)7 °	37.886673 °
пеш				-121.33186	62 °	-121.331965 °
DWR ID	DWR_RD0	524_01_s _ 201	2_114			·
			_			

Action/Comments

Elderberries are blocking visibility and flood fight capability.

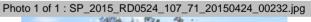
No Photos

No Photos

LM Start	5.05	Rating **	M	Issue No.		71	
LM End	5.07	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.8856	13 °	37.885286	0
item				-121.33213	39 °	-121.332167	0
DWR ID	DWR_RD0	0524_01_s _ 201	2_71				
		A -4:/	C	-1-			

Action/Comments

Trim trees to at least five feet above ground level.





Looking south at untrimmed trees on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.07	Rating **	U	Issue No.		68
LM End	5.07	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		37.8854	° 00	37.885400 °
item				-121.3321	53 °	-121.332153 °
DWR ID	DWR_RD0524_01_s _ 2012_68					·
		A ation/	Commo	nto.		

Trim trees over roadway to at least 12 feet above ground level.



Looking south at overhanging trees.

LM Start	5.12	Rating **	М	Issue No.		188	
LM End	5.12	Issue Type +	Ma	Location *	LS		
Category	Earthen L	GPS La	atitud	le/Longitude			
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.8846	27 °	37.884627	0
пеш				-121.3321	72 °	-121.332172	0
DWR ID	DWR_RD0524_01_s _ 2014_188						
	Action/Comments						

Trim trees to at least five feet above ground level.

No Photos

LM Start	5.16	Rating **	A/W	Issue No.	72		_
LM End	5.16	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS La	titud	e/Longitude		
			Start		End		
Itom	Trim / Thi	n Trees		37.8840	75 °	37.884075	0
пеш	Item			-121.3321	18 °	-121.332118	0
DWR ID							
Action/Comments							

Trim trees over roadway to at least 12 feet above ground level.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.19	Rating **	М	Issue No.		115
LM End	5.19	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Slope Stability			37.8835	87 °	37.883587
item			-121.3321	00 °	-121.332100 °	
DWR ID DWR_RD0524_01_s _ 2012_115						

Action/Comments

Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comments: Vehicle traffic created a ramp on landward slope.



Looking northwest at slope damage on landward slope.

LM Start	5.22	Rating **	М	Issue No.		116		
LM End	5.22	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End			
Item	Encroachments			37.8831	70°	37.883170	0	
item				-121.3322	27 °	-121.332227	0	
DWR ID DWR_RD0524_01_s _ 2012_116								

Action/Comments

Tree or limb

Inspector Comments: Dead tree limbs on waterside slope.

No Photos

LM Start	5.28	Rating **	М	Issue No.		85		
LM End	5.34	Issue Type +	Ma	Location *		LS		
Earthen Levee				GPS Latitude/Longitude				
Category			Start		End			
Item	Trim / Thi	n Trees		37.88237	77 °	37.881498 °		
пеш				-121.33259	98 °	-121.332800 °		
DWR ID DWR_RD0524_01_s _ 2012_85								
Action/Comments								

Trim trees to at least five feet above ground level.



Looking south at untrimmed trees on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.38	Rating **	М	Issue No.		932	
LM End	5.41	Issue Type +	Ma	Location *	LS		
Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Itom	Trim / Thi	n Trees		37.8809	45 °	37.880522 °	
item	Item			-121.3328	37 °	-121.332918 °	
DWR ID DWR_RD0524_01_s _ 2012_932							
Action/Comments							

Trim trees to at least five feet above ground level.



Looking south at untrimmed trees on landward slope and toe.

LM Start	5.39	Rating **	М	Issue No.		178
LM End	5.39	Issue Type +	Ma	Location *		N/A
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Encroachments			37.8808	06 °	37.880806 °
item			-121.3328	33 °	-121.332833 °	
DWR ID	DWR_RD0	524_01_f _ 201	4_178		·	

Action/Comments

Tree or limb

Inspector Comments: Downed tree on landward toe.

Photo 1 of 1: SP_2015_RD0524_107_178_20150309_00145.jpg

Looking south at downed tree on landward slope.

LM Start	5.41	Rating **	A/W	Issue No.	931		
LM End	5.41	Issue Type +	Ma	Location *	LS		
Cotogon Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Animal Co	ontrol		37.88057	75 °	37.880575 °	
пеш			-121.33289	90 °	-121.332890 °		
DWR ID DWR_RD0524_01_s _ 2012_931							
Action/Comments							

Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent holes.



Looking north at typical view of grouted rodent holes on landward shoulder and slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.41	Rating **	A/W	Issue No.		931 (cont)		
LM End	5.41	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Animal Co	ontrol		37.8805	75 °	37.880575	٥	
пеш				-121.3328	90 °	-121.332890	٥	
DWR ID DWR_RD0524_01_s _ 2012_931								
Action/Comments								

Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent holes.



Looking north at typical view of grouted rodent holes on waterward slope.

LM Start	5.42	Rating **	М	Issue No.		Issue No.		118	
LM End	5.42	Issue Type + Ma		Location *		LS			
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Slope Stability			37.8803	23 °	37.880323	0		
пеш					68 °	-121.332968	0		
DWR ID	DWR_RD0	524_01_s _ 201	2_118						

Action/Comments

Repair slope instability.

Inspector Comments: Slope damage caused by human activity.

Photo 1 of 3: SP_2015_RD0524_107_118_20150309_00119.jp	g

Looking west at slope damage on landside slope.

 LM Start
 5.42
 Rating **
 M
 Issue No.
 118 (cont)

 LM End
 5.42
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 3: SP_2015_RD0524_107_118_20150309_00120.jpg



Looking southeast at damaged slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable CR : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Acceptable N : Not Inspected/Rated Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.42	Rating **	М	Issue No.		Issue No. 1		118 (cont)	
LM End	5.42	Issue Type +	Ma	Location *		Location *		LS	
Category	GPS Latitude/Longitude								
Calegory				Start		End			
Item	Slope Stability			37.8803	23 °	37.880323	0		
item				-121.3329	86°	-121.332968	0		
DWR ID DWR_RD0524_01_s _ 2012_118									

Action/Comments

Repair slope instability.

Inspector Comments: Slope damage caused by human activity.



Looking east at slope caving on landside slope.

LM Start	5.43	Rating **	U	Issue No.		125	
LM End	5.43	Issue Type +	Ma	Location *		WS	
Category	ental	GPS Latitude/Longitude					
Category				Start		End	
Item	DWR Ero	sion Survey		37.8803	20 °	37.880320 °	
item				-121.3332	66 °	-121.333266 °	
DWR ID	DWR_RD0	524_01_s _ 201	5_125		·		

Action/Comments

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: The erosion seems to be getting worse. More material sloughing visible.

08/07/2012: The erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2014 Site ID:RD0524U01RM45.97]



Close view of the erosion and the pipe.

LM Start	5.44	Rating **	М	Issue No.	73		
LM End	5.44	Issue Type +	Ma	Location *	LS		
Cotogon Earthen Levee				GPS Latitude/Longitude			
Category	zategory					End	
Item	Trim / Thi	n Trees		37.88008	35 °	37.880085 °	
item				-121.33304	15 °	-121.333045 °	
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_73						
Action/Comments							

Trim trees to at least five feet above ground level.



Looking east at untrimmed trees on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.45	Rating **	М	Issue No.		189
LM End	5.45	Issue Type +	Ма	Location *	LS	
Category	Earthen L	evee		GPS Latitude/Longitude		
Category				Start		End
Item	Encroach	ments	37.8799	98 °	37.879998 °	
item				-121.3330	79 °	-121.333079 °
DWR ID	DWR_RD0	524_01_s _ 201	4_189			
		Action/	Comme	nts		
Prunings Inspector (removed.	Comments	: Prunings on	landwar	d shoulder	sho	uld be

No Photos

Rating ** U Issue No. LM Start 5.46 962 LM End 5.46 Issue Type + En Location * LS Supplemental GPS Latitude/Longitude Category Start End DWR UCIP Field Study 37.880584 ° 37.880584 ° Item -121.332901 ° -121.332901 ° DWR ID

No Photos

Action/Comments

Inspector Comments: FS_ID:18345

DS_ID:20630 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: flap gate damage and does not work at WS toe. Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly.

FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through the levee 6.0-feet below the crown, pump missing from the landward side. Flap gate on the waterward end. Originally included in the 1964 O&M manual.

FS Date: 08/23/2013

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.47	Rating **	M	Issue No.	963		
LM End	5.47	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Calegory					Start		
Item	DWR UC	IP Field Study		37.8803	58 °	37.880358	0
пеш					72 °	-121.332972	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18348

DS_ID:20631 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Recent work being done on WS slope. Pipe may still

be in use.

FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 6.0 feet below the crown. Pump not found on LS. Originally

included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	5.52	Rating **	A/W	Issue No.		96		
LM End	5.52	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.8789°	18 °	37.878918	0	
пеш				-121.33314	48 °	-121.333148	0	
DWR ID	DWR_RD0	524_01_s _ 201	2_96					
		Action/	Comme	nts				

Trim trees to at least five feet above ground level.

No Photos

No Photos

LM Start	5.53	Rating **	М	Issue No.	126			
LM End	5.53	Issue Type +	Ma	Location *	WS			
Category				GPS Latitude/Longitude				
Category						End		
Itom	DWR Ero	sion Survey		37.8789	20 °	37.878920	0	
пеш	Item			-121.3326	70 °	-121.332670	0	
DWR ID	DWR_RD0	0524_01_s _ 201	5_126					
	Action/Comments							

Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2014 Site

ID:RD0524U01RM46.06]

Photo 1 of 1: SP_2015_RD0524_107_126_20150309_00127.jpg



Front view of the erosion.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.64	Rating **	A/W	Issue No.	69			
LM End	5.80	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Calegory			Start		End		
	Animal Co	ontrol		37.8772	98 °	37.875073	0	
Item			-121.3323	43 °	-121.333168	0		
DWR ID DWR_RD0524_01_s _ 2012_69								
		A -4:	C	-1-				

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comments: District has grouted rodent holes.

No Photos

LM Start	5.64	Rating **	М	Issue No.		117	
LM End	5.64	Issue Type +	Ma	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.8772	72 °	37.877272 °	
item				-121.332400 °		-121.332400 °	
DWR ID DWR_RD0524_01_f _ 2013_117							
		A ation/	Camma	nto.			

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

LM Start	5.77	Rating **	M	Issue No.		196		
LM End	5.77	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End			
Item	Trim / Thi	n Trees		37.8755°	10 °	37.875510	0	
пеш	item			-121.3329	53 °	-121.332953	0	
DWR ID	DWR_RD0	524_01_s _ 201	5_196					
		A ation/	Commo	nto.				

Action/Comments

Trim trees to at least five feet above ground level.

No Photos

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side
CR: Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.79	Rating **	М	Issue No.	267		
LM End	5.79	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory	alegory			Start		End	
Itom	Encroach	ments		37.87532	8°	37.875328 °	
item	Item			-121.33305	0°	-121.333050 °	
DWR ID DWR_RD0524_01_s _ 2012_267							
		Action/	Commo	oto			

Action/Comments

Prunings

Inspector Comments: Prunings at landside toe should be burned or removed.





Looking east at pruning piles at landward toe and berm.

LM Start	5.79	Rating **	М	Issue No. 197			
LM End	5.79	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory						End	
Item	Animal Control			37.8753	10°	37.875310°	
пеш				-121.3330	65 °	-121.333065 °	
DWR ID	DWR_RD0	524_01_s _ 201	5_197				

Action/Comments

Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on landward slope and levee crown.

Photo 1 of 2: SP_2015_RD0524_107_197_20150424_00237.jpg	

Looking north at typical view of rodent holes on landward slope.

LM Start	5.79	Rating **	М	Issue No.	197 (cont)
LM End	5.79	Issue Type +	Ma	Location *	LS

Photo 2 of 2: SP_2015_RD0524_107_197_20150424_00238.jpg



Looking southwest at typical view of rodent hole at landward shoulder.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.79	Rating **	М	Issue No.	964		
LM End	5.79	Issue Type +	En	Location *	LS		
Category				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	IP Field Study		37.87600	0	37.876001	٥
пеш				-121.332725	°	-121.332725	٥
DWR ID							

Action/Comments

Inspector Comments: FS_ID:40793

DS_ID:20635 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Appears abandoned and if so should be done so

No Photos

LM Start	5.79	Rating **	М	Issue No.		965	
LM End	5.79	Issue Type +	En	Location *	LS		
Category	Suppleme	ental		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	DWR UCIP Field Study			37.87600)1 °	37.876001	0
пеш		-121.332725 °		-121.332725	0		
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18364

DS_ID:20649 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.25-inch steel conduit for a 1-inch plastic electrical conduit through the levee 0.25-feet below the crown. Lines

exposed on both slopes. FS Date: 08/23/2013

No Photos

5.81	Rating **	U	Issue No.		198	
5.81	Issue Type +	Ма	Location *	WS		
Category Interior Drainage & Piping Systems			GPS Latitude/Longitude			
			Start		End	
Item Erosion Areas			37.87495	60°	37.874950 °	
			-121.33327	′3 °	-121.333273 °	
DWR_RD0	524_01_s _ 201	5_198				
	5.81 Interior Dr Systems Erosion A	5.81 Issue Type + Interior Drainage & Pipi Systems Erosion Areas	5.81 Issue Type + Ma Interior Drainage & Piping Systems	5.81 Issue Type + Ma Location * Interior Drainage & Piping Systems Start Erosion Areas 37.87498 -121.33327	5.81 Issue Type + Ma Location * Interior Drainage & Piping Systems Erosion Areas 37.874950 ° -121.333273 °	

Action/Comments

Inspector Comments: Large erosion around irrigation pipe on waterward slope.



Looking south at erosion around irrigation pipe on waterward slope.

*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
N: Not Inspected/Rated
M: Not Inspected/Rated
C: Corrected
C: Corrected
D: Unacceptable
U: Unacceptable
A/W: Acceptable but Monitor & Maintain

** Rating
A: Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.81	Rating **	U	Issue No.		198 (cont)	
LM End	5.81	Issue Type +	Ма	Location *		WS	
Catagony	Category Interior Drainage & Piping Systems			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Erosion A	reas		37.8749	50°	37.874950	0
пеш				-121.3332	73 °	-121.333273	0
DWR ID	DWR_RD0	524_01_s _ 201	5_198				

Action/Comments

Inspector Comments: Large erosion around irrigation pipe on waterward slope.

LM Start	5.81	Rating **	U	Issue No.	198 (cont)
LM End	5.81	Issue Type +	Ма	Location *	WS

Photo 2 of 3: SP_2015_RD0524_107_198_20150424_00240.jpg



Looking east at erosion around irrigation pipe.

Photo 3 of 3: SP_2015_RD0524_107_198_20150424_00241.jpg



Looking at erosion around pipe inside concrete collar.

LM Start	5.86	Rating **	U	Issue No.	128			
LM End	5.86	Issue Type +	Ma	Location *	WS			
Supplemental				GPS Latitude/Longitude				
Category			Start		End			
Item	DWR Erosion Survey			37.87437	70 °	37.874370 °		
пеш				-121.33285	50 °	-121.332850 °		
DWR ID DWR_RD0524_01_s _ 2015_128								
Action/Comments								

Inspector Comments: 06/19/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2014 Site ID:RD0524U01RM46.39]



Front view of the site.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.86	Rating **	М	Issue No.		75
LM End	5.88	Issue Type +	Ma	Location *		WS
Category	Earthen Levee				atitud	le/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.8742	40 °	37.874002 °
пеш			-121.3331	87 °	-121.333027 °	
DWR ID	DWR_RD0524_01_s _ 2012_75					

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.
Inspector Comments: District has grouted rodent holes, but other

rodent holes have appeared.

LM Start	5.86	Rating **	М	Issue No.	75 (cont)
LM End	5.88	Issue Type +	Ma	Location *	WS



Looking typical view of several rodent holes on landward slope and toe.

Photo 2 of 2: SP_2015_RD0524_107_75_20150309_00087.jpg



Looking southwest at typical rodent holes on waterward slope.

LM Start	5.86	Rating **	М	Issue No.	74		
LM End	5.87	Issue Type +	Ma	Location *	WS		
Catagori Earthen Levee				GPS La	tituc	le/Longitude	
Category	alegory					End	
Item	Erosion / Bank Caving			37.87424	10°	37.874165 °	
item				-121.33318	35 °	-121.333155 °	
DWR ID	DWR_RD0	524_01_s _ 201	2_74				
Action/Comments							
Note and monitor erosion site. Inspector Comments: Erosion on landward slope around intake pipe.							



Looking southeast at erosion around pipe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

							_
LM Start	5.86	Rating **	М	Issue No.		74 (cont)	
LM End	5.87	Issue Type +	Ma	Location *		WS	
Catagoria Earthen Levee				GPS La	titud	le/Longitude	
Calegory	Category			Start		End	
Item	Erosion / Bank Caving			37.87424	10 °	37.874165	٥
item				-121.33318	35 °	-121.333155	0
DWR ID	DWR ID DWR_RD0524_01_s _ 2012_74						
Action/Comments							

Note and monitor erosion site.

Inspector Comments: Erosion on landward slope around intake pipe.

LM Start	5.86	Rating **	М	Issue No.	74 (cont)
LM End	5.87	Issue Type +	Ma	Location *	WS



Looking west at erosion around intake pipe on landward slope.

Photo 3 of 3: SP_2015_RD0524_107_74_20150309_00085.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

LM Start	5.87	Rating **	С	Issue No.	No. 190		
LM End	5.87	Issue Type +	Ma	Location *	WS		
Cotagon Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Category				Start End		
Item	Encroach	ments		37.8741	97 °	37.874197	0
пеш					08 °	-121.333208	0
DWR ID DWR_RD0524_01_s _ 2014_190							
Action/Comments							

Pipe

Inspector Comments: Landowner is replacing pump and left old pipe on waterward shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.87	Rating **	М	Issue No.		966	
LM End	5.87	Issue Type +	En	Location *	WS		
Supplemental				GPS Latitude/Longitude			
Calegory	alegory			Start		End	
Item	DWR UC	IP Field Study		37.87497	2°	37.874972 °	
пеш			-121.33324	3°	-121.333246 °		
DWR ID						·	

Action/Comments

Inspector Comments: FS_ID:18369

DS_ID:20636 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Apparent leak on WS shoulder at concrete riser. Erosion under pipe. This may have been fixed when the pipe was sleeved with a PVC liner.

FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 5.0 feet below the crown. Pump on the landward side. Siphon breaker in a 36-inch concrete riser on the waterward shoulder. Power

pole at the landward toe. PVC liner sleeved inside steel pipe.

Originally included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	5.88	Rating **	M	Issue No.	967			
LM End	5.88	Issue Type +	En	Location *	WS			
Supplemental				GPS Latitude/Longitude				
Calegory	Category					End		
Item	DWR UCIP Field Study			37.87482	9 °	37.874829 °		
пеш				-121.33326	5°	-121.333265 °		
DWR ID						·		

Action/Comments

Inspector Comments: FS_ID:18705

DS_ID:20656 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Need to verify gasline exists and if so improve

signage.

FIELD_STRUCT_DESC: Gasline marker sign on WS shoulder.

FS Date: 08/23/2013

No Photos

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.89 Rating ** U		Issue No.		119		
LM End	5.89	Issue Type +	Ма	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Slope Stability			37.8738	93 °	37.873893	0
пеш					78 °	-121.332978	0
DWR ID	DWR_RD0524_01_s _ 2012_119						

Action/Comments

Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comments: Landowner is using damaged area as a ramp.

LM Start	5.89	Rating **	U	Issue No.	119 (cont)
LM End	5.89	Issue Type +	Ma	Location *	LS



Looking west at unauthorized ramp and landside slope damage.

Photo 2 of 2: SP_2015_RD0524_107_119_20150309_00123.jpg



Looking southwest at damaged slope and ramp on landside slope.

LM Start	5.92	Rating **	М	Issue No.		86	_
LM End	5.92	Issue Type +	Ma	Location *	LS		
Category	gory Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Trim / Thin Trees			37.8736	78 °	37.873678	0	
пеш				-121.332550 °		-121.332550	0
DWR ID	DWR_RD0	524_01_s _ 201	2_86				
		Action/	Comme	nts			
Trim trees to at least five feet above ground level.							

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.92	Rating **	М	Issue No.	968		
LM End	5.92	Issue Type +	En	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	DWR UCIP Field Study			4 °	37.874194	o
пеш				-121.33318	2 °	-121.333182 '	o
DWR ID							

Action/Comments

Inspector Comments: FS_ID:18379

DS_ID:20638 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 10.0 feet below the crown. Slant pump on pier at WS toe. 10-inch steel standpipe on LS slope. 42-inch concrete standpipe on LS slope. Filter plant, and power pole on LS toe. 1.5-inch galvanized iron electrical conduit at same location. Originally included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	5.94	Rating **	М	Issue No.		87		
LM End	5.95	Issue Type +	En	Location *	LS			
Category	Earthen L	.evee		GPS Latitude/Longitude				
Category		Start		End				
Item	Encroachments			37.8735	45 °	37.873445	0	
Item				-121.3323	08 °	-121.332127	0	
DWR ID	DWR_RD0	0524_01_s _ 201	2_87					
	Action/Comments							
Гороо								

Fence

No Photos

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	5.94 Rating ** U		Issue No.		88	
LM End	5.95	Issue Type +	En	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory	ıy			Start		End
Item	Vegetatio	Vegetation			3°	37.873445
item			-121.33230	8 °	-121.332127	
DWR ID	DWR_RD0	524_01_s _ 201	2_88			

Action/Comments

Landscaping

Inspector Comments: Cactus and Century plants on landward slope and toe.



Looking southeast at fence and cactus on landside slope and toe.

LM End 5.96 Issue 7	vne +					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ма	Location *		LS	
Category Earthen Levee	GPS Latitude/Longitude					
Category			Start		End	
Trim / Thin Trees	Trim / Thin Trees			47 °	37.873347 °	
item				28 °	-121.332028 °	
DWR ID DWR_RD0524_01_	DWR_RD0524_01_s _ 2012_120					

Action/Comments

Trim trees to at least five feet above ground level.



Looking south at untrimmed trees on landward slope and toe.

Photo 1 of 1: SP_2015_RD0524_107_933_20150309_00171.jpg

LM Start	6.00	Rating **	М	Issue No.	933		
LM End	6.00	Issue Type +	Ма	Location *	LS		
Category	Earthen L	.evee	GPS Latitude/Longitude				
Category			Start		End		
Item	Slope Sta	Slope Stability			۲°	37.873047	0
пеш				-121.33140)8 °	-121.331408	٥
DWR ID	DWR_RD0	0524_01_s _ 201	2_933				

Action/Comments

Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comments: Landowner cut steps into landside slope.



Looking north at steps cut into landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	6.02	Rating **	М	Issue No.	191	
LM End	6.02	Issue Type +	Ма	Location *	LS	
Catagony	Catagoni Earthen Levee			GPS Latitude/Longitude		
Category				Start		End
Item	Vegetation			37.87284	4 °	37.872844 °
пеш	1			-121.33107	0 °	-121.331070 °
DWR ID DWR_RD0524_01_s _ 2014_191						
		A ation/	Commo	nto.		

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Cactus at landward toe.

No Photos

LM Start	6.15	Rating **	М	Issue No.	268		
LM End	6.15	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	ategory			Start		End	
ltom	Encroach	ments		37.8711	37 °	37.871137	
Item		-121.3301	38 °	-121.330138			
DWR ID	DWR_RD0	524_01_s _ 201	2_268				

Action/Comments

Pipe

Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.

Photo 1 of 1 : SP_2015_RD0524_107_268_20150309_00163.jpg



Looking southeast at abandoned pipe on waterside slope.

LM Start	6.15	Rating **	U	Issue No.	81		
LM End	6.15	Issue Type +	Ма	Location *	LS		
Catagonia Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Encroach	ments		37.87109	7 °	37.871097	0
пеш				-121.33010	o°	-121.330100	0
DWR ID	DWR_RD0	524_01_s _ 201	5_81				

Action/Comments

Tree or limb

Inspector Comments: Large tree fallen across levee crown blocking access.



Looking southwest at large tree across levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	6.15	Rating **	U	Issue No. 81 (cont		81 (cont)
LM End	6.15	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Encroachments			37.871097 °		37.871097 °
пеш						-121.330100 °
DWR ID DWR_RD0524_01_s _ 2015_81						
		Action/	Comme	nts		

Tree or limb

Inspector Comments: Large tree fallen across levee crown blocking access.



Looking south at large tree across levee crown.

LM Start	6.17	Rating **	М	Issue No.		98	
LM End	6.17	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Trim / Thi	n Trees		37.8708	42 °	37.870842 °	
item				-121.330000 °			
DWR ID DWR_RD0524_01_s _ 2012_98							
		A -4:/	C	-1-			

Action/Comments

Trim trees to at least five feet above ground level.



Looking southeast at untrimmed trees at landward toe.

LM Start	6.17	Rating **	A/W	Issue No.	97		
LM End	6.17	Issue Type +	Ma	Location *	LS		
Cotagon Earthen Levee				GPS La	titud	le/Longitude	
Calegory	Category			Start		End	
Item	Vegetatio	n		37.87084	0°	37.870840	0
пеш	m · · · · · · · · · · · · · · · · · ·		-121.32999	3°	-121.329993	0	
DWR ID	DWR_RD0	524_01_s _ 201	2_97				
			_				

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

6.21 Rating ** Issue No. 969 LM Start NΛ 6.21 Issue Type + Location * LS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 37.871138° 37.871138° Item -121.330146 ° -121.330146 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:18392

DS_ID:20641 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe and pump abandoned and should be done so

FIELD_STRUCT_DESC: *ABANDONED*10-inch pipe through levee 12.0 feet below crown, pump on the waterward slope. Originally

included in the 1964 O&M manual.

FS Date: 08/23/2013

LM Start	6.21	Rating **	М	Issue No.		970
LM End	6.21	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.8711	18 °	37.871118 °
				-121.3301	37 °	-121.330137 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:22073

DS ID:24052 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 1.75-inch galvanized iron electrical conduit through the levee 1-foot below the crown. Power pole

on LS toe.

FS Date: 08/23/2013

No Photos

No Photos

N: Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence